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Weston Solutions, Inc.
Suite 201
1090 King Georges Post Road
Edison, New Jersey 08837-3703
732-585-4400 • Fax: 732-225-7037
www.westonsolutions.com

REMOVAL SUPPORT TEAM 2
EPA CONTRACT EP-W-06-072

June 12, 2013

Ms. Kimberly Staiger, On-Scene Coordinator
U.S. Environmental Protection Agency
Removal Action Branch
2890 Woodbridge Avenue
Edison, NJ 08837

EPA CONTRACT NO: EP-W-06-072

TDD NO: TO-0027-0097

DOCUMENT CONTROL NO: RST2-02-F-2413

**SUBJECT: FINAL SOIL SAMPLING TRIP REPORT – BARTH SMELTING
CORPORATION SITE, 99 CHAPEL STREET, NEWARK, ESSEX
COUNTY, NEW JERSEY**

Dear Ms. Staiger:

Enclosed please find the Final Soil Sampling Trip Report for the sampling event conducted at the Barth Smelting Corporation Site located at 99 Chapel Street, Newark, Essex County, New Jersey. The sampling event was conducted on March 26, 2013. Per your request, a separate Soil Sampling Trip Report will be submitted for the Terrell Homes portion of the Site. The U.S. Environmental Protection Agency comments regarding the draft version of the report have been incorporated. If you have any questions or comments, please contact me at (732) 585-4441.

Sincerely,

WESTON SOLUTIONS, INC.

A handwritten signature in black ink, appearing to read "Scott T. Snyder".

Scott T. Snyder, CHMM
RST 2 Site Project Manager/Group Leader

Enclosure
cc: TDD File No.: TO-0027-0097

FINAL SOIL SAMPLING TRIP REPORT

SITE NAME: Barth Smelting Corporation Site
DC No.: RST2-02-F-2413
TDD No.: TO-0027-0097

SAMPLING DATE: March 26, 2013

EPA ID NO.: NJN008010373

1. Site Location: Barth Smelting Corporation Site
99 Chapel Street, Newark, Essex County, New Jersey
(Refer to Attachment A, Figure 1 – Site Location Map)

2. Sample Summary:

On March 26, 2013, Weston Solutions, Inc., Removal Support Team 2 (RST 2) mobilized to the Barth Smelting Corporation Site (the Site) to conduct soil sampling activities. As part of the sampling event, RST 2 collected a total of 42 soil samples, including two field duplicates, from the 99 Chapel Street portion of the site. As part of the soil sampling event, RST 2 also collected one rinsate blank sample. With the exception of the five soil samples collected manually using a hand-driven bucket auger, samples were collected using Geoprobe® direct-push method. A total of 42 soil samples and one rinsate blank sample were submitted to the U.S. Environmental Protection Agency (EPA) Region II Division of Environmental Science and Assessment (DESA) laboratory in Edison, New Jersey for target analyte list (TAL) metal (including mercury and tin) analysis. Refer to Attachment B, Table 1 for sample collection information.

3. Laboratories Receiving Samples:

The following laboratories were utilized during the soil sampling event:

Sample Matrix	Analysis	Laboratory
Soil	TAL Metals (including Hg and Sn)	EPA Region II DESA Laboratory 2890 Woodbridge Ave. Building 209, MS-230 Edison, NJ 08837
Rinsate Blank		

TAL = Target Analyte List

Sn = Tin

Hg = Mercury

EPA = U.S. Environmental Protection Agency

DESA = Division of Environmental Science and Assessment

4. Sample Dispatch Data:

On March 27, 2013, RST 2 hand-delivered 42 soil samples, including two field duplicates, and one rinsate blank sample to DESA, located in Edison, New Jersey, for TAL metal (including mercury and tin) analysis. All samples were delivered under Chain of Custody Record Number 2-032713-091826-0001.

5. On-Site Personnel:

Name	Representing	Duties On-Site
Kimberly Staiger	EPA, Region II	On-Scene Coordinator
Scott Snyder	RST 2, Region II	Site Project Manager, Site Health & Safety, Sample Management, Site QA/QC, Global Positioning System (GPS) Data Collection, and Geoprobe® Oversight
Dipa Chavan	RST 2, Region II	Sampler
John Rush	TPI, Inc.	Geoprobe® Operator
George Demitry	TPI, Inc.	Assistant Driller

6. Site Background and Description:

The Site is located in the Ironbound Section of Newark, New Jersey, adjacent to the Passaic River. The Ironbound section of Newark is historically an industrialized neighborhood. The area of the Site under investigation has been industrialized since the late 1800s. The Site is currently occupied by various maritime shipping and maintenance facilities. Barth Smelting Corp. operated on Block 2442, Lots 10, 11, 12 from at least 1946 until approximately 1982, and produced brass and bronze ingots and also worked with non-ferrous metals. Prior operators include General Lead Batteries, a manufacturer of lead acid batteries, and the New Jersey Zinc Company, a former zinc smelter. Barth was listed as an unrecognized Battery Lead Smelter site with a paper titled "Discovering Unrecognized Lead Smelting Sites by Historical Methods" written by William Eckel et al, and published in the American Journal of Public Health, April 2001, however, several resources exist labeling Barth Smelting as a secondary copper smelting facility. The New Jersey Zinc and Iron Company, also known as the Newark Zinc Works, formerly operated on the property now occupied by the Newark Housing Authority's Terrell Homes and also on the property formerly occupied by Barth Smelting. The Zinc Works was one of the first commercial zinc oxide plants in the United States and operated on Chapel Street from 1848 to 1910. In 1946, the Millard E. Terrell Homes, a family development with 275 units, was constructed on the property formerly occupied by the New Jersey Zinc & Iron Company. A playground and grass-covered play area are located on housing authority property just beyond the fence that separates the 99 Chapel Street portion of the Site and the apartment complex. Additional residential properties are located across Chapel Street to the east.

7. Sample Collection Methodology

During the March 2013 sampling event, RST 2 collected 42 soil samples, including two field duplicates, from the 99 Chapel Street portion of the site. The Site [former Barth Smelting facility (i.e., 99 Chapel Street)] was divided into an approximately 100-foot (ft.) by 100-ft. grid pattern. At 99 Chapel Street, RST 2 advanced 12 boreholes within the former Barth Smelting facility footprint to a depth of 2 feet below ground surface (bgs) using Geoprobe® direct-push method. One additional borehole was advanced to a depth of 2 feet bgs using a hand-driven bucket auger from an area believed to be used by an on-site resident as a garden. RST 2 collected a total of 42 soil samples, including two field duplicate samples, from 99 Chapel Street. Borehole locations were recorded electronically using Global Positioning System (GPS) technology. From direct-push boreholes advanced within the paved areas of 99 Chapel Street, RST 2 generally collected soil samples from 2-6 inches, 6-12 inches, 12-18 inches, and 18-24

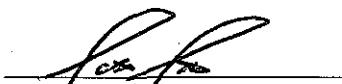
inches. The presence of asphalt, coarse material such as gravel, and subsurface concrete altered the sampling depths at some locations. From the manually advanced borehole in the garden area, RST 2 collected soil samples from 0-1 inch, 1-6 inches, 6-12 inches, 12-18 inches, and 18-24 inches. Refer to Attachment B, Table 1 for sample collection information and specific sample depths. The samples were collected to determine if operations at the former Barth Smelting facility have impacted the soils within the footprint of the facility.

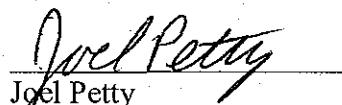
Soil samples were collected in 4-ounce (oz.) jars (as requested by the lab). Field duplicate and matrix spike/matrix spike duplicate (MS/MSD) samples were collected at a rate of one per 20 soil samples (inclusive of samples collected at the adjacent Terrell Homes housing complex). Soil samples were collected using dedicated plastic scoops. One rinsate blank sample was collected from a decontaminated Geoprobe® cutting shoe at a rate of one per day of sampling to demonstrate adequate decontamination of non-dedicated sampling equipment. Boreholes were backfilled and capped with asphalt or bentonite. The soil samples were submitted to the EPA DESA laboratory in Edison, New Jersey for TAL metal (including mercury and tin) analysis. Soil samples collected from the uppermost interval from each borehole were designated for sieving with a 250-micron stainless steel sieve and pan. After the samples were collected, the sample information was entered into Scribe sample management database from which sample labels and chain of custody documents were prepared and printed. The Chain of Custody Record is presented in Attachment C.

8. Analytical Results

Soil sample analytical results indicated the presence of lead at concentrations that exceed the USEPA Removal Management Level (RML) of 800 milligrams per kilogram (mg/kg) in 14 samples collected from seven of the boreholes; these elevated concentrations range from 1,100 mg/kg to 11,000 mg/kg. The highest concentrations were detected in soil samples collected from soil borings P001-SS006 and P001-SS009. Arsenic and manganese were also detected above their respective RMLs.

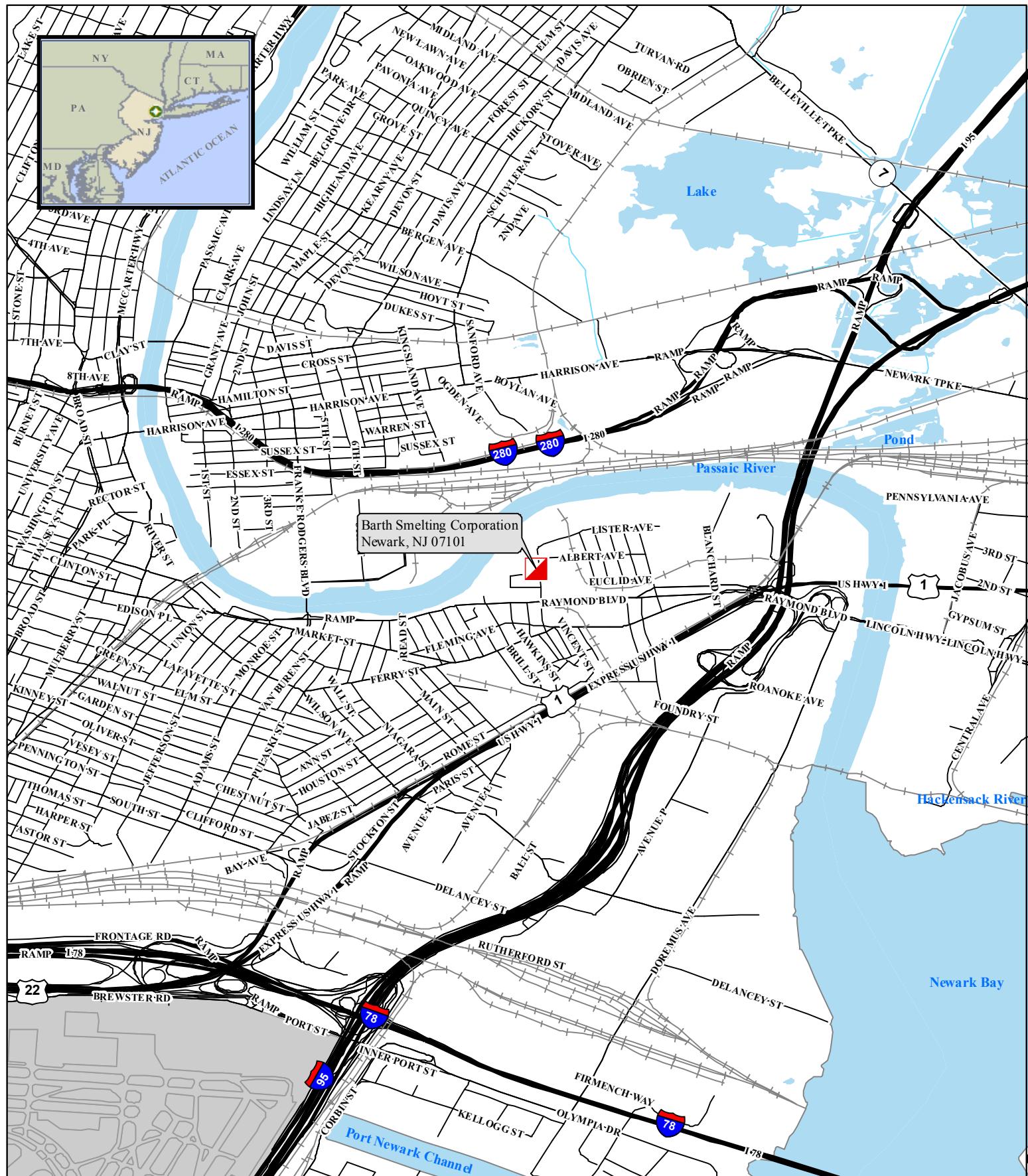
For reference purposes of this report, Attachment A contains the Site Location Map (Figure 1), and the Sample Location Map (Figure 2); Attachment B contains sample collection information (Table 1) and a target analyte list metals data summary table (Table 2); and Attachment C contains the sample analytical results and the Chain of Custody Record.

8. Report Prepared by: 
Date: 6/12/13
Scott T. Snyder, CHMM
RST 2 Site Project Manager/Group Leader

Report Reviewed by: 
Date: 6/12/13
Joel Petty
RST 2 Group Leader

ATTACHMENT A

Figure 1: Site Location Map
Figure 2: Sample Location Map



Weston Solutions, Inc.
Northeast Division

In Association With
H & S Environmental, Inc.,
Scientific and Environmental Associates, Inc.
and Avatar Environmental, LLC.

Figure 1 Site Location Map	
Barth Smelting Corporation Site Newark, New Jersey	
DATE MODIFIED:	12/6/2012
U.S. ENVIRONMENTAL PROTECTION AGENCY	REM OVAL SUPPORT TEAM 2
	CONTRACT # EP-W-06-072
GIS ANALYST:	T. BENTON
EPA OSC:	K. STAIGER
RST SPM:	S. SNYDER
FILENAME:	SITEMAP.MXD



SCALE
1:1,250

LEGEND
■ Soil Sampling Location



PASSAIC RIVER

Analyte	CAS Number	USEPA Removal Management Levels (Industrial Soil) Carcinogenic Target Risk (Ingestion) (mg/Kg)
Aluminum	7429-90-5	3,000,000
Antimony	7440-36-0	1200
Arsenic	7440-38-2	160
Barium	7440-39-3	570,000
Beryllium	7440-41-7	6,000
Cadmium	7440-43-9	2,400
Calcium	7440-70-2	---
Chromium	7440-47-3	---
Cobalt	7440-48-4	910
Copper	7440-50-8	120,000
Iron	7439-89-6	2,100,000
Lead*	7439-92-1	800
Magnesium	7439-95-4	---
Manganese	7439-96-5	68,000
Mercury	7439-97-6	130
Nickel	7440-02-0	59,000
Potassium	9/7/7440	---
Selenium	7782-49-2	15,000
Silver	7440-22-4	15,000
Sodium	7440-23-5	---
Thallium	7440-28-0	31
Vanadium	7440-62-2	15,000
Zinc	7440-66-6	920,000
Tin	7440-31-5	1,800,000
--- Level Not Specified		* Screening Level

P001-SS013-0206-001 (2 - 6)
» LEAD - 61 MG/KG
P001-SS013-0612-001 (6 - 12)
» LEAD - 58 MG/KG
P001-SS013-1218-001 (12 - 18)
» LEAD - 1100 MG/KG
P001-SS013-1824-001 (18 - 24)
» LEAD - 2400 MG/KG

P001-SS014-0206-001 (2 - 6)
» LEAD - 15 MG/KG
P001-SS014-2124-001 (21 - 24)
» LEAD - 250 MG/KG

P001-SS008-0206-001 (2 - 6)
» LEAD - 740 MG/KG
P001-SS008-2224-001 (22 - 24)
» LEAD - 540 MG/KG

P001-SS10-1824-001 (18 - 24)
» LEAD - 5400 MG/KG

P001-SS009-0206-001 (2 - 6)
» LEAD - 11000 MG/KG

P001-SS006-0206-001 (2 - 6)
» LEAD - 260 MG/KG
P001-SS006-0612-001 (6 - 12)
» LEAD - 2700 MG/KG
P001-SS006-1218-001 (12 - 18)
» LEAD - 11000 MG/KG
P001-SS006-1218-002 (12 - 18)
» LEAD - 5800 MG/KG

P001-SS007-1218-001 (12 - 18)
» LEAD - 180 MG/KG
P001-SS007-1824-001 (18 - 24)
» LEAD - 36 MG/KG

P001-SS005-0206-001 (2 - 6)
» LEAD - 45 MG/KG
P001-SS005-0609-001 (6 - 9)
» LEAD - 13 MG/KG
P001-SS005-1318-001 (13 - 18)
» LEAD - 360 MG/KG
P001-SS005-1824-001 (18 - 24)
» LEAD - 78 MG/KG
» MANGANESE - 71000 MG/KG

P001-SS003-0206-001 (2 - 6)
» LEAD - 150 MG/KG
P001-SS003-0612-001 (6 - 12)
» LEAD - 270 MG/KG
P001-SS003-1218-001 (12 - 18)
» LEAD - 350 MG/KG
P001-SS003-1824-001 (18 - 24)
» ARSENIC - 350 MG/KG
» LEAD - 51 MG/KG
» MANGANESE - 99000 MG/KG

P001-SS002-0206-001 (2 - 6)
» LEAD - 210 MG/KG
P001-SS002-0612-001 (6 - 12)
» LEAD - 130 MG/KG
» MANGANESE - 78000 MG/KG
P001-SS002-1218-001 (12 - 18)
» LEAD - 160 MG/KG
P001-SS002-1824-001 (18 - 24)
» LEAD - 64 MG/KG

P001-SS015-0001-001 (0 - 1)
» LEAD - 66 MG/KG
P001-SS015-0106-001 (0 - 6)
» LEAD - 69 MG/KG
P001-SS015-0612-001 (6 - 12)
» LEAD - 07 MG/KG
P001-SS015-1218-001 (12 - 18)
» LEAD - 1100 MG/KG
P001-SS015-1824-001 (18 - 24)
» LEAD - 76 MG/KG

P001-SS004-0206-001 (2 - 6)
» LEAD - 2300 MG/KG
P001-SS001-0612-001 (6 - 12)
» LEAD - 560 MG/KG
P001-SS001-1218-001 (12 - 18)
» LEAD - 1200 MG/KG
P001-SS001-1824-001 (18 - 24)
» LEAD - 1400 MG/KG
P001-SS001-1824-002 (18 - 24)
» LEAD - 1500 MG/KG

0 65 130 260 390 520 Feet

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NOTE(S):
» ALL SAMPLE DEPTHS ARE DEPICTED IN INCHES AND ARE DISPLAYED IN PARENTHESIS
» ALL LEAD RESULTS AND ONLY EXCEEDANCES OF U.S.E.P.A. REMOVAL MANAGEMENT CRITERIA ARE DEPICTED
» MG/KG - MILLIGRAM PER KILOGRAM

**Figure 2: Sample Location Map
99 Chapel Street**

**BARTH SMELTING CORPORATION
NEWARK, NEW JERSEY**

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REMOVAL SUPPORT TEAM 2
CONTRACT # EP-W-06-072**

Weston Solutions, Inc.

In Association With
Scientific and Environmental Associates, Inc.,
H & S Environmental, Inc. &
Avatar Environmental, LLC

GIS ANALYST: E. CAMPBELL
EPA OSC: K. STAIGER
RST 2 SPM: S. SNYDER
FILENAME: 99 CHAPEL SMP.MXD
FIGURE: 2
REVISION: 0
DATE MODIFIED: 05/24/2013

bing™

ATTACHMENT B

Table 1: Sample Collection Information

Table 2: Target Analyte List Metals Data Summary

Table 1
Sample Collection Information
Barth Smelting Corporation Site (99 Chapel Street)
March 26, 2013

Sample No.	Sample Date	Sample Time	Matrix	Collection	Sample Type	Depth From (inches)	Depth To (inches)	Remarks
RB-032613	3/26/2013	9:00	DI Water	Grab	Rinsate Blank		N/A	Geoprobe cutting shoe.
P001-SS001-0206-001	3/26/2013	9:10	Soil	Grab	Field Sample	2	6	Sample designated for 250-micron sieving.
P001-SS001-0612-001	3/26/2013	9:12	Soil	Grab	Field Sample	6	12	
P001-SS001-1218-001	3/26/2013	9:15	Soil	Grab	Field Sample	12	18	
P001-SS001-1824-001	3/26/2013	9:20	Soil	Grab	Field Sample	18	24	Matrix Spike/Matrix Spike Duplicate.
P001-SS001-1824-002	3/26/2013	9:20	Soil	Grab	Field Duplicate	18	24	Duplicate of P001-SS001-1824-001.
P001-SS002-0206-001	3/26/2013	9:45	Soil	Grab	Field Sample	2	6	Sample designated for 250-micron sieving.
P001-SS002-0612-001	3/26/2013	9:47	Soil	Grab	Field Sample	6	12	
P001-SS002-1218-001	3/26/2013	9:50	Soil	Grab	Field Sample	12	18	
P001-SS002-1824-001	3/26/2013	9:52	Soil	Grab	Field Sample	18	24	
P001-SS003-0206-001	3/26/2013	10:05	Soil	Grab	Field Sample	2	6	Sample designated for 250-micron sieving.
P001-SS003-0612-001	3/26/2013	10:07	Soil	Grab	Field Sample	6	12	
P001-SS003-1218-001	3/26/2013	10:10	Soil	Grab	Field Sample	12	18	
P001-SS003-1824-001	3/26/2013	10:12	Soil	Grab	Field Sample	18	24	
P001-SS004-0206-001	3/26/2013	10:25	Soil	Grab	Field Sample	2	6	Sample designated for 250-micron sieving.
P001-SS004-0612-001	3/26/2013	10:28	Soil	Grab	Field Sample	6	12	
P001-SS004-1218-001	3/26/2013	10:35	Soil	Grab	Field Sample	12	18	
P001-SS004-1824-001	3/26/2013	10:40	Soil	Grab	Field Sample	18	24	
P001-SS005-0206-001	3/26/2013	11:00	Soil	Grab	Field Sample	2	6	Sample designated for 250-micron sieving.
P001-SS005-0609-001	3/26/2013	11:05	Soil	Grab	Field Sample	6	9	Presence of subsurface concrete altered normal sample depths.
P001-SS005-1318-001	3/26/2013	11:08	Soil	Grab	Field Sample	13	18	Presence of subsurface concrete altered normal sample depths.
P001-SS005-1824-001	3/26/2013	11:12	Soil	Grab	Field Sample	18	24	
P001-SS006-0206-001	3/26/2013	11:30	Soil	Grab	Field Sample	2	6	Sample designated for 250-micron sieving.
P001-SS006-0612-001	3/26/2013	11:35	Soil	Grab	Field Sample	6	12	
P001-SS006-1218-001	3/26/2013	11:40	Soil	Grab	Field Sample	12	18	Matrix Spike/Matrix Spike Duplicate.
P001-SS006-1218-002	3/26/2013	11:40	Soil	Grab	Field Duplicate	12	18	Duplicate of P001-SS006-1218-001.
P001-SS007-1218-001	3/26/2013	12:10	Soil	Grab	Field Sample	12	18	Presence of concrete and coarse gravel prevented sample collection above 12 inches.
P001-SS007-1824-001	3/26/2013	12:15	Soil	Grab	Field Sample	18	24	
P001-SS008-0206-001	3/26/2013	13:00	Soil	Grab	Field Sample	2	6	Presence of concrete and coarse material prevented sample collection from depths of 6 to 22 inches. Sample designated for 250-micron sieving.
P001-SS008-2224-001	3/26/2013	13:05	Soil	Grab	Field Sample	22	24	Presence of concrete altered normal sample depths.
P001-SS009-0206-001	3/26/2013	12:40	Soil	Grab	Field Sample	2	6	Geoprobe refusal at 12 inches (concrete). Sample designated for 250-micron sieving.
P001-SS010-1824-001	3/26/2013	13:20	Soil	Grab	Field Sample	18	24	Presence of concrete and coarse material prevented sample collection from remaining intervals at this location.
P001-SS013-0206-001	3/26/2013	13:55	Soil	Grab	Field Sample	2	6	Sample designated for 250-micron sieving.
P001-SS013-0612-001	3/26/2013	14:00	Soil	Grab	Field Sample	6	12	
P001-SS013-1218-001	3/26/2013	14:05	Soil	Grab	Field Sample	12	18	
P001-SS013-1824-001	3/26/2013	14:10	Soil	Grab	Field Sample	18	24	
P001-SS014-0206-001	3/26/2013	13:35	Soil	Grab	Field Sample	2	6	Sample designated for 250-micron sieving.
P001-SS014-2124-001	3/26/2013	13:40	Soil	Grab	Field Sample	21	24	Presence of concrete and coarse material prevented collection of samples and altered bottom sample depth.
P001-SS015-0001-001	3/26/2013	14:42	Soil	Grab	Field Sample	0	1	Garden Area. Sample designated for 250-micron sieving.
P001-SS015-0106-001	3/26/2013	14:45	Soil	Grab	Field Sample	1	6	Garden Area.
P001-SS015-0612-001	3/26/2013	14:47	Soil	Grab	Field Sample	6	12	Garden Area.
P001-SS015-1218-001	3/26/2013	14:53	Soil	Grab	Field Sample	12	18	Garden Area.
P001-SS015-1824-001	3/26/2013	14:55	Soil	Grab	Field Sample	18	24	Garden Area.

DI = Deionized.

N/A = Not Applicable.

Table 2
Target Analyte List Metals Data Summary
Barth Smelting Corporation Site (99 Chapel Street)
March 26, 2013

Field Sample ID:	P001-SS001-0206-001	P001-SS001-0612-001	P001-SS001-1218-001	P001-SS001-1824-001	P001-SS001-1824-002	P001-SS002-0206-001	P001-SS002-0612-001	P001-SS002-1218-001	P001-SS002-1824-001	P001-SS003-0206-001	P001-SS003-0612-001	USEPA Removal Management Levels (Industrial Soil)
Sample Date:	3/26/2013	3/26/2013	3/26/2013	3/26/2013	3/26/2013	3/26/2013	3/26/2013	3/26/2013	3/26/2013	3/26/2013	3/26/2013	
Lab Sample ID:	1303109-01	1303109-02	1303109-03	1303109-04	1303109-05	1303109-06	1303109-07	1303109-08	1303109-09	1303109-10	1303109-11	
Depth (inches):	2-6	6-12	6-12	12-18	18-24	18-24	2-6	6-12	12-18	18-24	2-6	6-12
Sample Location:	P001-SS001	P001-SS001	P001-SS001	P001-SS001	Duplicate of P001-SS001-1824-001	P001-SS002	P001-SS002	P001-SS002	P001-SS002	P001-SS003	P001-SS003	Carcinogenic Target Risk (Ingestion)
Aluminum	6200	7500	9500	8200	8000	8500	6700	13000	11000	8800	5900	3000000
Antimony	32	9.2 U	18	22	26	8.9 U	24	10	9.3 U	9.7 U	35	1200
Arsenic	8.5	13	35	53	72	3.6 U	130	41	54	65	150	160
Barium	150	88	180	610	730	45 U	120	110	110	130	300	570000
Beryllium	1.5	1.4 U	3.0	1.9	1.7	1.3 U	2.3	2.4	1.4 U	1.5 U	2.7	6000
Cadmium	3.9	3.1	5.4	7.0	6.6	1.3 U	2.9	2.3	1.4 U	2.2	3.9	2400
Calcium	6800	19000	37000	12000	14000	17000	11000	16000	13000	41000	42000	Not Established
Chromium	41	11	26	36	45	7.2	13	18	18	21	34	560*
Cobalt	10	12	9.0	11 U	13	8.9 U	12	8.8 U	9.3 U	14	10	910
Copper	12000	1600	3200	5600	2200	710	190	73	88	1700	590	120000
Iron	26000	35000	61000	54000	100000	25000	150000	47000	37000	75000	110000	2100000
Lead	2300	560	1200	1400	1500	210	130	160	64	150	270	800
Magnesium	2800	9900	18000	3700	4700	8500	4200	4200	3400	15000	18000	Not Established
Manganese	620	6700	30000	16000	19000	340	78000	18000	8200	16000	38000	68000
Nickel	200	34	69	73	72	31	45	21	16	62	45	59000**
Potassium	340	590	670	550	500	450	510	750	630	1300	470	Not Established
Selenium	9.9 U	9.2 U	45 U	11 U	10 U	8.9 U	80 U	18 U	9.3 U	9.7 U	45 U	15000
Silver	4.9	2.3 U	4.3	2.6 U	2.6 U	2.2 U	9.0	2.7	2.3 U	2.4 U	5.0	15000
Sodium	670	660	540	610	620	1300	670	910	980	990	630	Not Established
Thallium	9.9 U	9.2 U	9.0 U	11 U	10 U	8.9 U	8.0 U	8.8 U	9.3 U	9.7 U	9.0 U	31**
Tin	670	36	70	190	150	27	8.5	8.3	7.9	130	43	180000
Vanadium	140	84	29	30	44	150	28	24	24	69	28	15000
Zinc	3600	3400	13000	14000	13000	400	37000	24000	13000	12000	31000	920000
Mercury	0.036 U	0.15	0.080	0.50	0.53	0.044 U	0.29	0.047 U	0.13	0.070	0.16	130

All results in milligrams per kilogram (mg/kg).

U = The analyte was not detected at or above the reporting limit.

Reported concentration exceeds USEPA Removal Management Level.

* Value for hexavalent chromium, lower of two values.

** Soluble salts.

Table 2 (continued)
Target Analyte List Metals Data Summary
Barth Smelting Corporation Site (99 Chapel Street)
March 26, 2013

Field Sample ID:	P001-SS003-1218-001	P001-SS003-1824-001	P001-SS004-0206-001	P001-SS004-0612-001	P001-SS004-1218-001	P001-SS004-1824-001	P001-SS005-0206-001	P001-SS005-0609-001	P001-SS005-1318-001	P001-SS005-1824-001	P001-SS006-0206-001	USEPA Removal Management Levels (Industrial Soil)
Sample Date:	3/26/2013	3/26/2013	3/26/2013	3/26/2013	3/26/2013	3/26/2013	3/26/2013	3/26/2013	3/26/2013	3/26/2013	3/26/2013	Carcinogenic Target Risk (Ingestion)
Lab Sample ID:	1303109-12	1303109-13	1303109-14	1303109-15	1303109-16	1303109-17	1303109-18	1303109-19	1303109-20	1303109-21	1303109-22	
Depth (inches):	12-18	18-24	2-6	6-12	12-18	28-24	2-6	6-9	13-18	18-24	2-6	
Sample Location:	P001-SS003	P001-SS003	P001-SS004	P001-SS004	P001-SS004	P001-SS004	P001-SS005	P001-SS005	P001-SS005	P001-SS005	P001-SS006	
Aluminum	7500		6400		12000		16000		12000		12000	3000000
Antimony	25		28		9.8 U		8.5 U		9.0 U		9.7 U	1200
Arsenic	140		350		6.7		6.5		8.0		11	3.7
Barium	300		270		59		98		200		59	160
Beryllium	2.7		6.0		1.5 U		1.3		1.4 U		1.4	6000
Cadmium	3.0		4.8		6.1		13		9.5		57	2400
Calcium	13000		41000		16000		26000		31000		41000	Not Established
Chromium	91		12		33		28		31		17	560*
Cobalt	16		12		9.8 U		8.9		9.6 U		9.0 U	910
Copper	810		30		2000		3900		2400		1800	120000
Iron	110000		170000		33000		24000		17000		33000	2100000
Lead	350		51		650		1500		1100		2800	800
Magnesium	2600		8100		7300		6900		3100		7100	19000
Manganese	35000		99000		2600		380		280		350	68000
Nickel	120		46		60		79		42		34	59000**
Potassium	630		920		600		720		1200		820	940
Selenium	45 U		160 U		9.8 U		8.5 U		9.6 U		9.0 U	15000
Silver	4.7		12		2.4 U		2.1 U		2.4 U		2.4	15000
Sodium	630		710		1700		2800		2800		2100	Not Established
Thallium	9.0 U		8.1 U		9.8 U		8.5 U		9.6 U		9.0 U	31**
Tin	32		4.1 U		130		260		170		380	180000
Vanadium	37		24		85		45		30		33	15000
Zinc	24000		77000		6600		9900		7300		27000	920000
Mercury	0.19		0.029 U		0.13		0.34		0.29		0.97	0.035
												130

All results in milligrams per kilogram (mg/kg).

U = The analyte was not detected at or above the reporting limit.

Reported concentration exceeds USEPA Removal Management Level.

* Value for hexavalent chromium, lower of two values.

** Soluble salts.

Table 2 (continued)
Target Analyte List Metals Data Summary
Barth Smelting Corporation (99 Chapel Street)
March 26, 2013

Field Sample ID:	P001-SS006-0612-001	P001-SS006-1218-001	P001-SS006-1218-002	P001-SS007-1218-001	P001-SS007-1824-001	P001-SS008-0206-001	P001-SS008-2224-001	P001-SS009-0206-001	P001-SS010-1824-001	P001-SS013-0206-001	P001-SS013-0612-001	USEPA Removal Management Levels (Industrial Soil)
Sample Date:	3/26/2013	3/26/2013	3/26/2013	3/26/2013	3/26/2013	3/26/2013	3/26/2013	3/26/2013	3/26/2013	3/26/2013	3/26/2013	Carcinogenic Target Risk (Ingestion)
Lab Sample ID:	1303109-23	1303109-24	1303109-25	1303109-26	1303109-27	1303109-28	1303109-29	1303109-30	1303109-31	1303109-32	1303109-33	6-12
Depth (inches):	6-12	12-18	12-18	12-18	18-24	2-6	22-24	2-6	18-24	2-6	12-18	
Sample Location:	P001-SS006	P001-SS006	Duplicate of P001-SS006-1218-001	P001-SS007	P001-SS007	P001-SS008	P001-SS008	P001-SS009	P001-SS010	P001-SS013	P001-SS013	
Aluminum	8500	9400	9500	10000	16000	14000	3700	13000	5100	12000	6200	3000000
Antimony	20	110	32	18	8.5 U	7.8 U	21	130	39	7.9 U	8.1 U	1200
Arsenic	11	17	15	79	14	5.0	67	22	27	3.2 U	3.2 U	160
Barium	250	330	320	210	190	150	170	560	690	130	47	570000
Beryllium	1.7	7.3	4.3	6.0	7.1	3.6	1.7	7.5	3.9	1.2 U	1.2 U	6000
Cadmium	18	48	35	2.9	1.3 U	5.0	3.3	82	23	1.2 U	1.2 U	2400
Calcium	41000	46000	45000	31000	37000	15000	4900	37000	35000	13000	5400	Not Established
Chromium	100	79	67	13	12	65	16	94	77	37	24	560*
Cobalt	8.6 U	11	10	11	8.5 U	11	15	14	14 U	10	8.1	910
Copper	9100	20000	16000	360	20	4400	340	18000	25000	180	110	120000
Iron	21000	42000	45000	90000	25000	53000	79000	41000	49000	38000	35000	2100000
Lead	2700	11000	5800	180	36	740	540	11000	5400	61	58	800
Magnesium	16000	4900	4300	7900	6700	5700	1400	4200	14000	7200	4300	Not Established
Manganese	810	3700	1600	38000	46000	970	15000	1900	2800	330	180	68000
Nickel	810	440	540	40	14	120	38	300	580	25	17	59000**
Potassium	450	510	480	1200	1500	1600	360	440	340	1800	1700	Not Established
Selenium	8.6 U	8.8 U	8.4 U	40 U	85 U	7.8 U	9.7 U	8.6 U	14 U	7.9 U	8.1 U	15000
Silver	3.2	9.6	6.2	4.9	5.2	2.7	2.4 U	9.8	8.5	2.0 U	2.0 U	15000
Sodium	430 U	530	420 U	430	480	910	480 U	430 U	740	660	400 U	Not Established
Thallium	8.6 U	8.8 UL	8.4 U	8.0 U	8.5 U	7.8 U	9.7 U	8.6 U	14 U	7.9 U	8.1 U	31**
Tin	780	800	780	12	6.6	200	30	1200	1100	3.9 U	4.0 U	1800000
Vanadium	32	38	37	24	17	70	19	45	49	74	69	15000
Zinc	8900	37000	26000	21000	5700	4400	23000	60000	14000	610	280	920000
Mercury	0.88	1.2	0.99	0.043 U	0.035 U	0.40	0.38	3.4	2.0	0.031 U	0.039 U	130

All results in milligrams per kilogram (mg/kg).

U = The analyte was not detected at or above the reporting limit.

L = The identification of the analyte is acceptable; the reported value may be biased low.

Reported concentration exceeds USEPA Removal Management Level.

* Value for hexavalent chromium, lower of two values.

** Soluble salts.

Table 2 (continued)
Target Analyte List Metals Data Summary
Barth Smelting Corporation (99 Chapel Street)
March 26, 2013

Field Sample ID:	P001-SS013-1218-001	P001-SS013-1824-001	P001-SS014-0206-001	P001-SS014-2124-001	P001-SS015-0001-001	P001-SS015-0106-001	P001-SS015-0612-001	P001-SS015-1218-001	P001-SS015-1824-001	USEPA Removal Management Levels (Industrial Soil) Carcinogenic Target Risk (Ingestion)
Sample Date:	3/26/2013	3/26/2013	3/26/2013	3/26/2013	3/26/2013	3/26/2013	3/26/2013	3/26/2013	3/26/2013	
Lab Sample ID:	1303109-34	1303109-35	1303109-36	1303109-37	1303109-38	1303109-39	1303109-40	1303109-41	1303109-42	
Depth (inches):	12-18	18-24	2-6	21-24	0-1	1-6	6-12	12-18	18-24	
Sample Location:	P001-SS013	P001-SS013	P001-SS014	P001-SS014	P001-SS015	P001-SS015	P001-SS015	P001-SS015	P001-SS015	
Aluminum	3900	26000	13000	21000	7900	7800	8100	8000	7900	3000000
Antimony	26	14	8.3 U	14	9.1 U	9.4 U	9.1 U	9.2 U	8.9 U	1200
Arsenic	3.8	15	3.3 U	46	7.4	5.9	9.4	11	25	160
Barium	50	510	54	270	65	62	70	69	73	570000
Beryllium	1.2 U	6.9	1.2 U	5.1	1.4 U	1.4 U	1.4 U	1.4 U	1.3 U	6000
Cadmium	4.5	7.5	1.2 U	3.5	1.4 U	1.4 U	1.4 U	1.4 U	1.3 U	2400
Calcium	4200	60000	22000	34000	7300	13000	11000	11000	11000	Not Established
Chromium	17	200	19	290	23	23	24	33	39	560*
Cobalt	7.9 U	17	12	45	9.1 U	9.4 U	9.1 U	9.2 U	8.9 U	910
Copper	3300	5400	60	610	88	82	74	77	83	120000
Iron	13000	50000	27000	73000	20000	16000	17000	17000	17000	2100000
Lead	1100	2400	15	250	66	69	67	65	76	800
Magnesium	1700	9800	12000	5900	3200	3800	3000	3400	3500	Not Established
Manganese	290	42000	360	30000	500	510	540	550	590	68000
Nickel	40	170	28	180	15	14	14	15	36	59000**
Potassium	310	1500	1000	1500	690	610	540	630	500	Not Established
Selenium	7.9 U	43 U	8.3 U	43 U	9.1 U	9.4 U	9.1 U	9.2 U	8.9 U	15000
Silver	2.0 U	6.0	2.1 U	3.4	2.3 U	2.4 U	2.3 U	2.3 U	2.2 U	15000
Sodium	400 U	650	1300	610	450 U	470 U	460 U	460 U	440 U	Not Established
Thallium	7.9 U	8.6 U	8.3 U	8.7 U	9.1 U	9.4 U	9.1 U	9.2 U	8.9 U	31**
Tin	98	180	4.2 U	7.9	4.5 U	4.7 U	4.6 U	4.6 U	4.4 U	1800000
Vanadium	25	21	92	20	36	28	30	31	31	15000
Zinc	3700	6700	120	1200	230	200	190	180	210	920000
Mercury	0.23	0.047	0.038 U	0.036 U	0.094	0.10	0.12	0.12	0.11	130

All results in milligrams per kilogram (mg/kg).

U = The analyte was not detected at or above the reporting limit.

Reported concentration exceeds USEPA Removal Management Level

* Value for hexavalent chromium, lower of two values.

** Soluble salts.

ATTACHMENT C

Sample Analytical Results and Chain of Custody Record



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 2 Laboratory
2890 Woodbridge Avenue
Edison, New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

May 15, 2013

Smita Sumbaly
Weston Solutions Inc.
205 Campus Drive
Edison, NJ 08837

RE: Barth Smelting Co.-1303109

Enclosed are the results of analyses for samples received by the laboratory between 3/27/2013 and 4/2/2013. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1303109 and contact John Birri by phone at 732-906-6886, or via Email at birri.john@epa.gov.

Sincerely,

John R. Bourbon
Chief, DESA/LB



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Barth Smelting Co.-1303109

Project Number: 1303109

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (TNI) is a voluntary environmental laboratory accreditation association of State and Federal agencies. TNI established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the TNI Standards.

Condition Comments

None

Comment(s):

None

Data Qualifier(s):

- U- The analyte was not detected at or above the Reporting Limit.
- J- The identification of the analyte is acceptable; the reported value is an estimate.
- K- The identification of the analyte is acceptable; the reported value may be biased high.
- L- The identification of the analyte is acceptable; the reported value may be biased low.
- NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Reporting Limit(s):

The Laboratory was able to achieve the appropriate limits for each metals analytes and Mercury requested except for the Selenium which was raised due to highly saturated samples with Manganese. The Client's action level of 390 mg/Kg requirement for Selenium was met.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Barth Smelting Co.-1303109

Project Number: 1303109

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
P001-SS001-0206-001	1303109-01	Solid	03/26/2013 09:10	03/27/2013 11:50
P001-SS001-0612-001	1303109-02	Solid	03/26/2013 09:12	03/27/2013 11:50
P001-SS001-1218-001	1303109-03	Solid	03/26/2013 09:15	03/27/2013 11:50
P001-SS001-1824-001	1303109-04	Solid	03/26/2013 09:20	03/27/2013 11:50
P001-SS001-1824-002	1303109-05	Solid	03/26/2013 09:20	03/27/2013 11:50
P001-SS002-0206-001	1303109-06	Solid	03/26/2013 09:45	03/27/2013 11:50
P001-SS002-0612-001	1303109-07	Solid	03/26/2013 09:47	03/27/2013 11:50
P001-SS002-1218-001	1303109-08	Solid	03/26/2013 09:50	03/27/2013 11:50
P001-SS002-1824-001	1303109-09	Solid	03/26/2013 09:52	03/27/2013 11:50
P001-SS003-0206-001	1303109-10	Solid	03/26/2013 10:05	03/27/2013 11:50
P001-SS003-0612-001	1303109-11	Solid	03/26/2013 10:07	03/27/2013 11:50
P001-SS003-1218-001	1303109-12	Solid	03/26/2013 10:10	03/27/2013 11:50
P001-SS003-1824-001	1303109-13	Solid	03/26/2013 10:12	03/27/2013 11:50
P001-SS004-0206-001	1303109-14	Solid	03/26/2013 10:25	03/27/2013 11:50
P001-SS004-0612-001	1303109-15	Solid	03/26/2013 10:28	03/27/2013 11:50
P001-SS004-1218-001	1303109-16	Solid	03/26/2013 10:35	03/27/2013 11:50
P001-SS004-1824-001	1303109-17	Solid	03/26/2013 10:40	03/27/2013 11:50
P001-SS005-0206-001	1303109-18	Solid	03/26/2013 11:00	03/27/2013 11:50
P001-SS005-0609-001	1303109-19	Solid	03/26/2013 11:05	03/27/2013 11:50
P001-SS005-1318-001	1303109-20	Solid	03/26/2013 11:08	03/27/2013 11:50
P001-SS005-1824-001	1303109-21	Solid	03/26/2013 11:12	03/27/2013 11:50
P001-SS006-0206-001	1303109-22	Solid	03/26/2013 11:30	03/27/2013 11:50
P001-SS006-0612-001	1303109-23	Solid	03/26/2013 11:35	03/27/2013 11:50
P001-SS006-1218-001	1303109-24	Solid	03/26/2013 11:40	03/27/2013 11:50
P001-SS006-1218-002	1303109-25	Solid	03/26/2013 11:40	03/27/2013 11:50
P001-SS007-1218-001	1303109-26	Solid	03/26/2013 12:10	03/27/2013 11:50
P001-SS007-1824-001	1303109-27	Solid	03/26/2013 12:15	03/27/2013 11:50
P001-SS008-0206-001	1303109-28	Solid	03/26/2013 13:00	03/27/2013 11:50
P001-SS008-2224-001	1303109-29	Solid	03/26/2013 13:05	03/27/2013 11:50



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Barth Smelting Co.-1303109

Project Number: 1303109

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
P001-SS009-0206-001	1303109-30	Solid	03/26/2013 12:40	03/27/2013 11:50
P001-SS010-1824-001	1303109-31	Solid	03/26/2013 13:20	03/27/2013 11:50
P001-SS013-0206-001	1303109-32	Solid	03/26/2013 13:55	03/27/2013 11:50
P001-SS013-0612-001	1303109-33	Solid	03/26/2013 14:00	03/27/2013 11:50
P001-SS013-1218-001	1303109-34	Solid	03/26/2013 14:05	03/27/2013 11:50
P001-SS013-1824-001	1303109-35	Solid	03/26/2013 14:10	03/27/2013 11:50
P001-SS014-0206-001	1303109-36	Solid	03/26/2013 13:35	03/27/2013 11:50
P001-SS014-2124-001	1303109-37	Solid	03/26/2013 13:40	03/27/2013 11:50
P001-SS015-0001-001	1303109-38	Solid	03/26/2013 14:42	03/27/2013 11:50
P001-SS015-0106-001	1303109-39	Solid	03/26/2013 14:45	03/27/2013 11:50
P001-SS015-0612-001	1303109-40	Solid	03/26/2013 14:47	03/27/2013 11:50
P001-SS015-1218-001	1303109-41	Solid	03/26/2013 14:53	03/27/2013 11:50
P001-SS015-1824-001	1303109-42	Solid	03/26/2013 14:55	03/27/2013 11:50
RB-032613	1303109-43	Aqueous	03/26/2013 09:00	03/27/2013 11:50



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Barth Smelting Co.-1303109

Project Number: 1303109

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Mercury	EPA 245.1 / SOP C-110 Rev2.3	NELAP	Aqueous
Mercury	EPA 245.1 / SOP C-110 Rev2.3	NELAP	Solid
E-Metals ICP TAL	EPA 200.7 / SOP C-109 Rev3.2	NELAP	Aqueous
E-Metals ICP TAL	EPA 200.7 / SOP C-109 Rev3.2	NELAP	Solid



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS001-0206-001

Sample ID: 1303109-01

Metals ICP

Aluminum	6200		50	mg/kg dry
Antimony	32		9.9	mg/kg dry
Arsenic	8.5		4.0	mg/kg dry
Barium	150		50	mg/kg dry
Beryllium	1.5		1.5	mg/kg dry
Cadmium	3.9		1.5	mg/kg dry
Calcium	6800		250	mg/kg dry
Chromium	41		2.5	mg/kg dry
Cobalt	10		9.9	mg/kg dry
Copper	12000		5.0	mg/kg dry
Iron	26000		25	mg/kg dry
Lead	2300		4.0	mg/kg dry
Magnesium	2800		250	mg/kg dry
Manganese	620		2.5	mg/kg dry
Nickel	200		9.9	mg/kg dry
Potassium	340		250	mg/kg dry
Selenium	---	U	9.9	mg/kg dry
Sodium	670		500	mg/kg dry
Silver	4.9		2.5	mg/kg dry
Thallium	---	U	9.9	mg/kg dry
Vanadium	140		9.9	mg/kg dry
Zinc	3600		9.9	mg/kg dry
Tin	670		5.0	mg/kg dry

Mercury CVAA

Mercury	---	U	0.036	mg/kg dry
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS001-0612-001

Sample ID: 1303109-02

Metals ICP

Aluminum	7500		46	mg/kg dry
Antimony	---	U	9.2	mg/kg dry
Arsenic	13		3.7	mg/kg dry
Barium	88		46	mg/kg dry
Beryllium	---	U	1.4	mg/kg dry
Cadmium	3.1		1.4	mg/kg dry
Calcium	19000		230	mg/kg dry
Chromium	11		2.3	mg/kg dry
Cobalt	12		9.2	mg/kg dry
Copper	1600		4.6	mg/kg dry
Iron	35000		23	mg/kg dry
Lead	560		3.7	mg/kg dry
Magnesium	9900		230	mg/kg dry
Manganese	6700		2.3	mg/kg dry
Nickel	34		9.2	mg/kg dry
Potassium	590		230	mg/kg dry
Selenium	---	U	9.2	mg/kg dry
Sodium	660		460	mg/kg dry
Silver	---	U	2.3	mg/kg dry
Thallium	---	U	9.2	mg/kg dry
Vanadium	84		9.2	mg/kg dry
Zinc	3400		9.2	mg/kg dry
Tin	36		4.6	mg/kg dry

Mercury CVAA



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS001-0612-001

Sample ID: 1303109-02

Mercury CVAA

Mercury	0.15	0.034	mg/kg dry
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Field ID: P001-SS001-1218-001

Sample ID: 1303109-03

Metals ICP

Aluminum	9500	45	mg/kg dry
Antimony	18	9.0	mg/kg dry
Arsenic	35	3.6	mg/kg dry
Barium	180	45	mg/kg dry
Beryllium	3.0	1.3	mg/kg dry
Cadmium	5.4	1.3	mg/kg dry
Calcium	37000	220	mg/kg dry
Chromium	26	2.2	mg/kg dry
Cobalt	9.0	9.0	mg/kg dry
Copper	3200	4.5	mg/kg dry
Iron	61000	22	mg/kg dry
Lead	1200	3.6	mg/kg dry
Magnesium	18000	220	mg/kg dry
Manganese	30000	11	mg/kg dry
Nickel	69	9.0	mg/kg dry
Potassium	670	220	mg/kg dry
Selenium	---	U	45 mg/kg dry
Sodium	540	450	mg/kg dry
Silver	4.3	2.2	mg/kg dry
Thallium	---	U	9.0 mg/kg dry
Vanadium	29	9.0	mg/kg dry



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS001-1218-001

Sample ID: 1303109-03

Metals ICP

Zinc	13000		9.0	mg/kg dry
Tin	70		4.5	mg/kg dry

Mercury CVAA

Mercury	0.080		0.036	mg/kg dry
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Field ID: P001-SS001-1824-001

Sample ID: 1303109-04

Metals ICP

Aluminum	8200		53	mg/kg dry
Antimony	22		11	mg/kg dry
Arsenic	53		4.2	mg/kg dry
Barium	610		53	mg/kg dry
Beryllium	1.9		1.6	mg/kg dry
Cadmium	7.0		1.6	mg/kg dry
Calcium	12000		260	mg/kg dry
Chromium	36		2.6	mg/kg dry
Cobalt	--	U	11	mg/kg dry
Copper	5600		5.3	mg/kg dry
Iron	54000		26	mg/kg dry
Lead	1400		4.2	mg/kg dry
Magnesium	3700		260	mg/kg dry
Manganese	16000		5.3	mg/kg dry
Nickel	73		11	mg/kg dry
Potassium	550		260	mg/kg dry
Selenium	--	U	11	mg/kg dry
Sodium	610		530	mg/kg dry



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Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS001-1824-001

Sample ID: 1303109-04

Metals ICP

Silver	---	U	2.6	mg/kg dry
Thallium	---	U	11	mg/kg dry
Vanadium	30		11	mg/kg dry
Zinc	14000		11	mg/kg dry
Tin	190		5.3	mg/kg dry

Mercury CVAA

Mercury	0.50	0.037	mg/kg dry
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Field ID: P001-SS001-1824-002

Sample ID: 1303109-05

Metals ICP

Aluminum	8000	51	mg/kg dry
Antimony	26	10	mg/kg dry
Arsenic	72	4.1	mg/kg dry
Barium	730	51	mg/kg dry
Beryllium	1.7	1.5	mg/kg dry
Cadmium	6.6	1.5	mg/kg dry
Calcium	14000	260	mg/kg dry
Chromium	45	2.6	mg/kg dry
Cobalt	13	10	mg/kg dry
Copper	2200	5.1	mg/kg dry
Iron	100000	26	mg/kg dry
Lead	1500	4.1	mg/kg dry
Magnesium	4700	260	mg/kg dry
Manganese	19000	5.1	mg/kg dry
Nickel	72	10	mg/kg dry



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Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS001-1824-002

Sample ID: 1303109-05

Metals ICP

Potassium	500		260	mg/kg dry
Selenium	---	U	10	mg/kg dry
Sodium	620		510	mg/kg dry
Silver	---	U	2.6	mg/kg dry
Thallium	---	U	10	mg/kg dry
Vanadium	44		10	mg/kg dry
Zinc	13000		10	mg/kg dry
Tin	150		5.1	mg/kg dry

Mercury CVAA

Mercury	0.53		0.038	mg/kg dry
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Field ID: P001-SS002-0206-001

Sample ID: 1303109-06

Metals ICP

Aluminum	8500		45	mg/kg dry
Antimony	---	U	8.9	mg/kg dry
Arsenic	---	U	3.6	mg/kg dry
Barium	---	U	45	mg/kg dry
Beryllium	---	U	1.3	mg/kg dry
Cadmium	---	U	1.3	mg/kg dry
Calcium	17000		220	mg/kg dry
Chromium	7.2		2.2	mg/kg dry
Cobalt	---	U	8.9	mg/kg dry
Copper	710		4.5	mg/kg dry
Iron	25000		22	mg/kg dry



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Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS002-0206-001

Sample ID: 1303109-06

Metals ICP

Lead	210		3.6	mg/kg dry
Magnesium	8500		220	mg/kg dry
Manganese	340		2.2	mg/kg dry
Nickel	31		8.9	mg/kg dry
Potassium	450		220	mg/kg dry
Selenium	---	U	8.9	mg/kg dry
Sodium	1300		450	mg/kg dry
Silver	---	U	2.2	mg/kg dry
Thallium	---	U	8.9	mg/kg dry
Vanadium	150		8.9	mg/kg dry
Zinc	400		8.9	mg/kg dry
Tin	27		4.5	mg/kg dry

Mercury CVAA

Mercury	---	U	0.044	mg/kg dry
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Field ID: P001-SS002-0612-001

Sample ID: 1303109-07

Metals ICP

Aluminum	6700		40	mg/kg dry
Antimony	24		8.0	mg/kg dry
Arsenic	130		3.2	mg/kg dry
Barium	120		40	mg/kg dry
Beryllium	2.3		1.2	mg/kg dry
Cadmium	2.9		1.2	mg/kg dry
Calcium	11000		200	mg/kg dry
Chromium	13		2.0	mg/kg dry



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Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS002-0612-001

Sample ID: 1303109-07

Metals ICP

Cobalt	12		8.0	mg/kg dry
Copper	190		4.0	mg/kg dry
Iron	150000		20	mg/kg dry
Lead	130		3.2	mg/kg dry
Magnesium	4200		200	mg/kg dry
Manganese	78000		20	mg/kg dry
Nickel	45		8.0	mg/kg dry
Potassium	510		200	mg/kg dry
Selenium	---	U	80	mg/kg dry
Sodium	670		400	mg/kg dry
Silver	9.0		2.0	mg/kg dry
Thallium	---	U	8.0	mg/kg dry
Vanadium	28		8.0	mg/kg dry
Zinc	37000		16	mg/kg dry
Tin	8.5		4.0	mg/kg dry

Mercury CVAA

Mercury	0.29		0.041	mg/kg dry
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Field ID: P001-SS002-1218-001

Sample ID: 1303109-08

Metals ICP

Aluminum	13000		44	mg/kg dry
Antimony	10		8.8	mg/kg dry
Arsenic	41		3.5	mg/kg dry
Barium	110		44	mg/kg dry
Beryllium	2.4		1.3	mg/kg dry



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Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS002-1218-001

Sample ID: 1303109-08

Metals ICP

Cadmium	2.3		1.3	mg/kg dry
Calcium	16000		220	mg/kg dry
Chromium	18		2.2	mg/kg dry
Cobalt	---	U	8.8	mg/kg dry
Copper	73		4.4	mg/kg dry
Iron	47000		22	mg/kg dry
Lead	160		3.5	mg/kg dry
Magnesium	4200		220	mg/kg dry
Manganese	18000		4.4	mg/kg dry
Nickel	21		8.8	mg/kg dry
Potassium	750		220	mg/kg dry
Selenium	---	U	18	mg/kg dry
Sodium	910		440	mg/kg dry
Silver	2.7		2.2	mg/kg dry
Thallium	---	U	8.8	mg/kg dry
Vanadium	24		8.8	mg/kg dry
Zinc	24000		8.8	mg/kg dry
Tin	8.3		4.4	mg/kg dry

Mercury CVAA

Mercury	---	U	0.047	mg/kg dry
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Field ID: P001-SS002-1824-001

Sample ID: 1303109-09

Metals ICP

Aluminum	11000		46	mg/kg dry
Antimony	---	U	9.3	mg/kg dry

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Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS002-1824-001

Sample ID: 1303109-09

Metals ICP

Arsenic	54		3.7	mg/kg dry
Barium	110		46	mg/kg dry
Beryllium	---	U	1.4	mg/kg dry
Cadmium	---	U	1.4	mg/kg dry
Calcium	13000		230	mg/kg dry
Chromium	18		2.3	mg/kg dry
Cobalt	---	U	9.3	mg/kg dry
Copper	88		4.6	mg/kg dry
Iron	37000		23	mg/kg dry
Lead	64		3.7	mg/kg dry
Magnesium	3400		230	mg/kg dry
Manganese	8200		2.3	mg/kg dry
Nickel	16		9.3	mg/kg dry
Potassium	630		230	mg/kg dry
Selenium	---	U	9.3	mg/kg dry
Sodium	980		460	mg/kg dry
Silver	---	U	2.3	mg/kg dry
Thallium	---	U	9.3	mg/kg dry
Vanadium	24		9.3	mg/kg dry
Zinc	13000		9.3	mg/kg dry
Tin	7.9		4.6	mg/kg dry

Mercury CVAA

Mercury	0.13	0.045	mg/kg dry
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Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS003-0206-001

Sample ID: 1303109-10

Metals ICP

Aluminum	8800		49	mg/kg dry
Antimony	---	U	9.7	mg/kg dry
Arsenic	65		3.9	mg/kg dry
Barium	130		49	mg/kg dry
Beryllium	---	U	1.5	mg/kg dry
Cadmium	2.2		1.5	mg/kg dry
Calcium	41000		240	mg/kg dry
Chromium	21		2.4	mg/kg dry
Cobalt	14		9.7	mg/kg dry
Copper	1700		4.9	mg/kg dry
Iron	75000		24	mg/kg dry
Lead	150		3.9	mg/kg dry
Magnesium	15000		240	mg/kg dry
Manganese	16000		4.9	mg/kg dry
Nickel	62		9.7	mg/kg dry
Potassium	1300		240	mg/kg dry
Selenium	---	U	9.7	mg/kg dry
Sodium	990		490	mg/kg dry
Silver	---	U	2.4	mg/kg dry
Thallium	---	U	9.7	mg/kg dry
Vanadium	69		9.7	mg/kg dry
Zinc	12000		9.7	mg/kg dry
Tin	130		4.9	mg/kg dry

Mercury CVAA



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Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS003-0206-001

Sample ID: 1303109-10

Mercury CVAA

Mercury	0.070	0.038	mg/kg dry
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Field ID: P001-SS003-0612-001

Sample ID: 1303109-11

Metals ICP

Aluminum	5900	45	mg/kg dry
Antimony	35	9.0	mg/kg dry
Arsenic	150	3.6	mg/kg dry
Barium	300	45	mg/kg dry
Beryllium	2.7	1.3	mg/kg dry
Cadmium	3.9	1.3	mg/kg dry
Calcium	42000	220	mg/kg dry
Chromium	34	2.2	mg/kg dry
Cobalt	10	9.0	mg/kg dry
Copper	590	4.5	mg/kg dry
Iron	110000	22	mg/kg dry
Lead	270	3.6	mg/kg dry
Magnesium	18000	220	mg/kg dry
Manganese	38000	11	mg/kg dry
Nickel	45	9.0	mg/kg dry
Potassium	470	220	mg/kg dry
Selenium	---	U	45 mg/kg dry
Sodium	630	450	mg/kg dry
Silver	5.0	2.2	mg/kg dry
Thallium	---	U	9.0 mg/kg dry
Vanadium	28	9.0	mg/kg dry



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Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS003-0612-001

Sample ID: 1303109-11

Metals ICP

Zinc	31000		9.0	mg/kg dry
Tin	43		4.5	mg/kg dry

Mercury CVAA

Mercury	0.16		0.039	mg/kg dry
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Field ID: P001-SS003-1218-001

Sample ID: 1303109-12

Metals ICP

Aluminum	7500		45	mg/kg dry
Antimony	25		9.0	mg/kg dry
Arsenic	140		3.6	mg/kg dry
Barium	300		45	mg/kg dry
Beryllium	2.7		1.3	mg/kg dry
Cadmium	3.0		1.3	mg/kg dry
Calcium	13000		220	mg/kg dry
Chromium	91		2.2	mg/kg dry
Cobalt	16		9.0	mg/kg dry
Copper	810		4.5	mg/kg dry
Iron	110000		22	mg/kg dry
Lead	350		3.6	mg/kg dry
Magnesium	2600		220	mg/kg dry
Manganese	35000		11	mg/kg dry
Nickel	120		9.0	mg/kg dry
Potassium	630		220	mg/kg dry
Selenium	---	U	45	mg/kg dry
Sodium	630		450	mg/kg dry



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Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS003-1218-001

Sample ID: 1303109-12

Metals ICP

Silver	4.7		2.2	mg/kg dry
Thallium	---	U	9.0	mg/kg dry
Vanadium	37		9.0	mg/kg dry
Zinc	24000		9.0	mg/kg dry
Tin	32		4.5	mg/kg dry

Mercury CVAA

Mercury	0.19	0.047	mg/kg dry
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Field ID: P001-SS003-1824-001

Sample ID: 1303109-13

Metals ICP

Aluminum	6400	41	mg/kg dry
Antimony	28	8.1	mg/kg dry
Arsenic	350	3.2	mg/kg dry
Barium	270	41	mg/kg dry
Beryllium	6.0	1.2	mg/kg dry
Cadmium	4.8	1.2	mg/kg dry
Calcium	41000	200	mg/kg dry
Chromium	12	2.0	mg/kg dry
Cobalt	12	8.1	mg/kg dry
Copper	30	4.1	mg/kg dry
Iron	170000	20	mg/kg dry
Lead	51	3.2	mg/kg dry
Magnesium	8100	200	mg/kg dry
Manganese	99000	41	mg/kg dry
Nickel	46	8.1	mg/kg dry



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Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS003-1824-001

Sample ID: 1303109-13

Metals ICP

Potassium	920		200	mg/kg dry
Selenium	---	U	160	mg/kg dry
Sodium	710		410	mg/kg dry
Silver	12		2.0	mg/kg dry
Thallium	---	U	8.1	mg/kg dry
Vanadium	24		8.1	mg/kg dry
Zinc	77000		41	mg/kg dry
Tin	---	U	4.1	mg/kg dry

Mercury CVAA

Mercury	---	U	0.029	mg/kg dry
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Field ID: P001-SS004-0206-001

Sample ID: 1303109-14

Metals ICP

Aluminum	12000		49	mg/kg dry
Antimony	---	U	9.8	mg/kg dry
Arsenic	6.7		3.9	mg/kg dry
Barium	59		49	mg/kg dry
Beryllium	---	U	1.5	mg/kg dry
Cadmium	6.1		1.5	mg/kg dry
Calcium	16000		240	mg/kg dry
Chromium	33		2.4	mg/kg dry
Cobalt	---	U	9.8	mg/kg dry
Copper	2000		4.9	mg/kg dry
Iron	33000		24	mg/kg dry



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Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS004-0206-001

Sample ID: 1303109-14

Metals ICP

Lead	650		3.9	mg/kg dry
Magnesium	7300		240	mg/kg dry
Manganese	2600		2.4	mg/kg dry
Nickel	60		9.8	mg/kg dry
Potassium	600		240	mg/kg dry
Selenium	---	U	9.8	mg/kg dry
Sodium	1700		490	mg/kg dry
Silver	---	U	2.4	mg/kg dry
Thallium	---	U	9.8	mg/kg dry
Vanadium	85		9.8	mg/kg dry
Zinc	6600		9.8	mg/kg dry
Tin	130		4.9	mg/kg dry

Mercury CVAA

Mercury	0.13		0.034	mg/kg dry
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Field ID: P001-SS004-0612-001

Sample ID: 1303109-15

Metals ICP

Aluminum	16000		43	mg/kg dry
Antimony	---	U	8.5	mg/kg dry
Arsenic	6.5		3.4	mg/kg dry
Barium	98		43	mg/kg dry
Beryllium	1.3		1.3	mg/kg dry
Cadmium	13		1.3	mg/kg dry
Calcium	26000		210	mg/kg dry
Chromium	28		2.1	mg/kg dry



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Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS004-0612-001

Sample ID: 1303109-15

Metals ICP

Cobalt	8.9		8.5	mg/kg dry
Copper	3900		4.3	mg/kg dry
Iron	24000		21	mg/kg dry
Lead	1500		3.4	mg/kg dry
Magnesium	6900		210	mg/kg dry
Manganese	380		2.1	mg/kg dry
Nickel	79		8.5	mg/kg dry
Potassium	720		210	mg/kg dry
Selenium	---	U	8.5	mg/kg dry
Sodium	2800		430	mg/kg dry
Silver	---	U	2.1	mg/kg dry
Thallium	---	U	8.5	mg/kg dry
Vanadium	45		8.5	mg/kg dry
Zinc	9900		8.5	mg/kg dry
Tin	260		4.3	mg/kg dry

Mercury CVAA

Mercury	0.34	0.038	mg/kg dry
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Field ID: P001-SS004-1218-001

Sample ID: 1303109-16

Metals ICP

Aluminum	12000		48	mg/kg dry
Antimony	---	U	9.6	mg/kg dry
Arsenic	8.0		3.8	mg/kg dry
Barium	200		48	mg/kg dry
Beryllium	---	U	1.4	mg/kg dry



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Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS004-1218-001

Sample ID: 1303109-16

Metals ICP

Cadmium	9.5		1.4	mg/kg dry
Calcium	31000		240	mg/kg dry
Chromium	31		2.4	mg/kg dry
Cobalt	---	U	9.6	mg/kg dry
Copper	2400		4.8	mg/kg dry
Iron	17000		24	mg/kg dry
Lead	1100		3.8	mg/kg dry
Magnesium	3100		240	mg/kg dry
Manganese	280		2.4	mg/kg dry
Nickel	42		9.6	mg/kg dry
Potassium	1200		240	mg/kg dry
Selenium	---	U	9.6	mg/kg dry
Sodium	2800		480	mg/kg dry
Silver	---	U	2.4	mg/kg dry
Thallium	---	U	9.6	mg/kg dry
Vanadium	30		9.6	mg/kg dry
Zinc	7300		9.6	mg/kg dry
Tin	170		4.8	mg/kg dry

Mercury CVAA

Mercury	0.29		0.047	mg/kg dry
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Field ID: P001-SS004-1824-001

Sample ID: 1303109-17

Metals ICP

Aluminum	11000		45	mg/kg dry
Antimony	---	U	9.0	mg/kg dry

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Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS004-1824-001

Sample ID: 1303109-17

Metals ICP

Arsenic	11		3.6	mg/kg dry
Barium	59		45	mg/kg dry
Beryllium	1.4		1.4	mg/kg dry
Cadmium	57		1.4	mg/kg dry
Calcium	41000		230	mg/kg dry
Chromium	17		2.3	mg/kg dry
Cobalt	---	U	9.0	mg/kg dry
Copper	1800		4.5	mg/kg dry
Iron	33000		23	mg/kg dry
Lead	2800		3.6	mg/kg dry
Magnesium	7100		230	mg/kg dry
Manganese	350		2.3	mg/kg dry
Nickel	34		9.0	mg/kg dry
Potassium	820		230	mg/kg dry
Selenium	---	U	9.0	mg/kg dry
Sodium	2100		450	mg/kg dry
Silver	2.4		2.3	mg/kg dry
Thallium	---	U	9.0	mg/kg dry
Vanadium	33		9.0	mg/kg dry
Zinc	27000		9.0	mg/kg dry
Tin	380		4.5	mg/kg dry

Mercury CVAA

Mercury	0.97	0.040	mg/kg dry
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Field ID: P001-SS005-0206-001

Sample ID: 1303109-18



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Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS005-0206-001

Sample ID: 1303109-18

Metals ICP

Aluminum	12000		48	mg/kg dry
Antimony	---	U	9.7	mg/kg dry
Arsenic	---	U	3.9	mg/kg dry
Barium	59		48	mg/kg dry
Beryllium	---	U	1.5	mg/kg dry
Cadmium	---	U	1.5	mg/kg dry
Calcium	21000		240	mg/kg dry
Chromium	24		2.4	mg/kg dry
Cobalt	12		9.7	mg/kg dry
Copper	160		4.8	mg/kg dry
Iron	29000		24	mg/kg dry
Lead	45		3.9	mg/kg dry
Magnesium	12000		240	mg/kg dry
Manganese	430		2.4	mg/kg dry
Nickel	26		9.7	mg/kg dry
Potassium	1200		240	mg/kg dry
Selenium	---	U	9.7	mg/kg dry
Sodium	710		480	mg/kg dry
Silver	---	U	2.4	mg/kg dry
Thallium	---	U	9.7	mg/kg dry
Vanadium	100		9.7	mg/kg dry
Zinc	380		9.7	mg/kg dry
Tin	5.6		4.8	mg/kg dry

Mercury CVAA



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS005-0206-001

Sample ID: 1303109-18

Mercury CVAA

Mercury	---	U	0.040	mg/kg dry
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Field ID: P001-SS005-0609-001

Sample ID: 1303109-19

Metals ICP

Aluminum	12000		43	mg/kg dry
Antimony	---	U	8.6	mg/kg dry
Arsenic	---	U	3.5	mg/kg dry
Barium	---	U	43	mg/kg dry
Beryllium	---	U	1.3	mg/kg dry
Cadmium	---	U	1.3	mg/kg dry
Calcium	21000		220	mg/kg dry
Chromium	18		2.2	mg/kg dry
Cobalt	12		8.6	mg/kg dry
Copper	67		4.3	mg/kg dry
Iron	26000		22	mg/kg dry
Lead	13		3.5	mg/kg dry
Magnesium	14000		220	mg/kg dry
Manganese	350		2.2	mg/kg dry
Nickel	24		8.6	mg/kg dry
Potassium	880		220	mg/kg dry
Selenium	---	U	8.6	mg/kg dry
Sodium	500		430	mg/kg dry
Silver	---	U	2.2	mg/kg dry
Thallium	---	U	8.6	mg/kg dry



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS005-0609-001

Sample ID: 1303109-19

Metals ICP

Vanadium	89		8.6	mg/kg dry
Zinc	97		8.6	mg/kg dry
Tin	---	U	4.3	mg/kg dry

Mercury CVAA

Mercury	---	U	0.032	mg/kg dry
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Field ID: P001-SS005-1318-001

Sample ID: 1303109-20

Metals ICP

Aluminum	7900		41	mg/kg dry
Antimony	20		8.2	mg/kg dry
Arsenic	100		3.3	mg/kg dry
Barium	280		41	mg/kg dry
Beryllium	2.8		1.2	mg/kg dry
Cadmium	6.2		1.2	mg/kg dry
Calcium	44000		210	mg/kg dry
Chromium	18		2.1	mg/kg dry
Cobalt	8.8		8.2	mg/kg dry
Copper	150		4.1	mg/kg dry
Iron	100000		21	mg/kg dry
Lead	360		3.3	mg/kg dry
Magnesium	16000		210	mg/kg dry
Manganese	52000		10	mg/kg dry
Nickel	42		8.2	mg/kg dry
Potassium	690		210	mg/kg dry
Selenium	---	U	41	mg/kg dry



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS005-1318-001

Sample ID: 1303109-20

Metals ICP

Sodium	---	U	410	mg/kg dry
Silver	6.8		2.1	mg/kg dry
Thallium	---	U	8.2	mg/kg dry
Vanadium	26		8.2	mg/kg dry
Zinc	22000		8.2	mg/kg dry
Tin	15		4.1	mg/kg dry

Mercury CVAA

Mercury	0.24	0.034	mg/kg dry
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Field ID: P001-SS005-1824-001

Sample ID: 1303109-21

Metals ICP

Aluminum	7400	46	mg/kg dry
Antimony	47	9.3	mg/kg dry
Arsenic	110	3.7	mg/kg dry
Barium	160	46	mg/kg dry
Beryllium	2.8	1.4	mg/kg dry
Cadmium	2.6	1.4	mg/kg dry
Calcium	15000	230	mg/kg dry
Chromium	15	2.3	mg/kg dry
Cobalt	12	9.3	mg/kg dry
Copper	45	4.6	mg/kg dry
Iron	150000	23	mg/kg dry
Lead	78	3.7	mg/kg dry
Magnesium	4100	230	mg/kg dry
Manganese	71000	23	mg/kg dry



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS005-1824-001

Sample ID: 1303109-21

Metals ICP

Nickel	42		9.3	mg/kg dry
Potassium	480		230	mg/kg dry
Selenium	---	U	46	mg/kg dry
Sodium	---	U	460	mg/kg dry
Silver	8.5		2.3	mg/kg dry
Thallium	---	U	9.3	mg/kg dry
Vanadium	25		9.3	mg/kg dry
Zinc	32000		9.3	mg/kg dry
Tin	---	U	4.6	mg/kg dry

Mercury CVAA

Mercury	0.090		0.040	mg/kg dry
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Field ID: P001-SS006-0206-001

Sample ID: 1303109-22

Metals ICP

Aluminum	8500		43	mg/kg dry
Antimony	---	U	8.6	mg/kg dry
Arsenic	3.7		3.4	mg/kg dry
Barium	84		43	mg/kg dry
Beryllium	---	U	1.3	mg/kg dry
Cadmium	---	U	1.3	mg/kg dry
Calcium	44000		210	mg/kg dry
Chromium	32		2.1	mg/kg dry
Cobalt	---	U	8.6	mg/kg dry
Copper	850		4.3	mg/kg dry



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS006-0206-001

Sample ID: 1303109-22

Metals ICP

Iron	31000		21	mg/kg dry
Lead	260		3.4	mg/kg dry
Magnesium	19000		210	mg/kg dry
Manganese	470		2.1	mg/kg dry
Nickel	29		8.6	mg/kg dry
Potassium	940		210	mg/kg dry
Selenium	---	U	8.6	mg/kg dry
Sodium	570		430	mg/kg dry
Silver	---	U	2.1	mg/kg dry
Thallium	---	U	8.6	mg/kg dry
Vanadium	58		8.6	mg/kg dry
Zinc	960		8.6	mg/kg dry
Tin	28		4.3	mg/kg dry

Mercury CVAA

Mercury	0.035	0.035	mg/kg dry
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Field ID: P001-SS006-0612-001

Sample ID: 1303109-23

Metals ICP

Aluminum	8500	43	mg/kg dry
Antimony	20	8.6	mg/kg dry
Arsenic	11	3.4	mg/kg dry
Barium	250	43	mg/kg dry
Beryllium	1.7	1.3	mg/kg dry
Cadmium	18	1.3	mg/kg dry
Calcium	41000	210	mg/kg dry



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS006-0612-001

Sample ID: 1303109-23

Metals ICP

Chromium	100		2.1	mg/kg dry
Cobalt	---	U	8.6	mg/kg dry
Copper	9100		4.3	mg/kg dry
Iron	21000		21	mg/kg dry
Lead	2700		3.4	mg/kg dry
Magnesium	16000		210	mg/kg dry
Manganese	810		2.1	mg/kg dry
Nickel	810		8.6	mg/kg dry
Potassium	450		210	mg/kg dry
Selenium	---	U	8.6	mg/kg dry
Sodium	---	U	430	mg/kg dry
Silver	3.2		2.1	mg/kg dry
Thallium	---	U	8.6	mg/kg dry
Vanadium	32		8.6	mg/kg dry
Zinc	8900		8.6	mg/kg dry
Tin	780		4.3	mg/kg dry

Mercury CVAA

Mercury	0.88	0.074	mg/kg dry
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Field ID: P001-SS006-1218-001

Sample ID: 1303109-24

Metals ICP

Aluminum	9400	44	mg/kg dry
Antimony	110	8.8	mg/kg dry
Arsenic	17	3.5	mg/kg dry
Barium	330	44	mg/kg dry

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Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS006-1218-001

Sample ID: 1303109-24

Metals ICP

Beryllium	7.3		1.3	mg/kg dry
Cadmium	48		1.3	mg/kg dry
Calcium	46000		220	mg/kg dry
Chromium	79		2.2	mg/kg dry
Cobalt	11		8.8	mg/kg dry
Copper	20000		4.4	mg/kg dry
Iron	42000		22	mg/kg dry
Lead	11000		3.5	mg/kg dry
Magnesium	4900		220	mg/kg dry
Manganese	3700		2.2	mg/kg dry
Nickel	440		8.8	mg/kg dry
Potassium	510		220	mg/kg dry
Selenium	---	U	8.8	mg/kg dry
Sodium	530		440	mg/kg dry
Silver	9.6		2.2	mg/kg dry
Thallium	---	UL	8.8	mg/kg dry
Vanadium	38		8.8	mg/kg dry
Zinc	37000		18	mg/kg dry
Tin	800		4.4	mg/kg dry

Mercury CVAA

Mercury	1.2		0.16	mg/kg dry
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Field ID: P001-SS006-1218-002

Sample ID: 1303109-25

Metals ICP

Aluminum	9500		42	mg/kg dry
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Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS006-1218-002

Sample ID: 1303109-25

Metals ICP

Antimony	32		8.4	mg/kg dry
Arsenic	15		3.4	mg/kg dry
Barium	320		42	mg/kg dry
Beryllium	4.3		1.3	mg/kg dry
Cadmium	35		1.3	mg/kg dry
Calcium	45000		210	mg/kg dry
Chromium	67		2.1	mg/kg dry
Cobalt	10		8.4	mg/kg dry
Copper	16000		4.2	mg/kg dry
Iron	45000		21	mg/kg dry
Lead	5800		3.4	mg/kg dry
Magnesium	4300		210	mg/kg dry
Manganese	1600		2.1	mg/kg dry
Nickel	540		8.4	mg/kg dry
Potassium	480		210	mg/kg dry
Selenium	---	U	8.4	mg/kg dry
Sodium	---	U	420	mg/kg dry
Silver	6.2		2.1	mg/kg dry
Thallium	---	U	8.4	mg/kg dry
Vanadium	37		8.4	mg/kg dry
Zinc	26000		8.4	mg/kg dry
Tin	780		4.2	mg/kg dry

Mercury CVAA

Mercury	0.99	0.042	mg/kg dry
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS007-1218-001

Sample ID: 1303109-26

Metals ICP

Aluminum	10000		40	mg/kg dry
Antimony	18		8.0	mg/kg dry
Arsenic	79		3.2	mg/kg dry
Barium	210		40	mg/kg dry
Beryllium	6.0		1.2	mg/kg dry
Cadmium	2.9		1.2	mg/kg dry
Calcium	31000		200	mg/kg dry
Chromium	13		2.0	mg/kg dry
Cobalt	11		8.0	mg/kg dry
Copper	360		4.0	mg/kg dry
Iron	90000		20	mg/kg dry
Lead	180		3.2	mg/kg dry
Magnesium	7900		200	mg/kg dry
Manganese	38000		10	mg/kg dry
Nickel	40		8.0	mg/kg dry
Potassium	1200		200	mg/kg dry
Selenium	---	U	40	mg/kg dry
Sodium	430		400	mg/kg dry
Silver	4.9		2.0	mg/kg dry
Thallium	---	U	8.0	mg/kg dry
Vanadium	24		8.0	mg/kg dry
Zinc	21000		8.0	mg/kg dry
Tin	12		4.0	mg/kg dry

Mercury CVAA

Mercury	---	U	0.043	mg/kg dry
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS007-1824-001

Sample ID: 1303109-27

Metals ICP

Aluminum	16000		42	mg/kg dry
Antimony	---	U	8.5	mg/kg dry
Arsenic	14		3.4	mg/kg dry
Barium	190		42	mg/kg dry
Beryllium	7.1		1.3	mg/kg dry
Cadmium	---	U	1.3	mg/kg dry
Calcium	37000		210	mg/kg dry
Chromium	12		2.1	mg/kg dry
Cobalt	---	U	8.5	mg/kg dry
Copper	20		4.2	mg/kg dry
Iron	25000		21	mg/kg dry
Lead	36		3.4	mg/kg dry
Magnesium	6700		210	mg/kg dry
Manganese	46000		21	mg/kg dry
Nickel	14		8.5	mg/kg dry
Potassium	1500		210	mg/kg dry
Selenium	---	U	85	mg/kg dry
Sodium	480		420	mg/kg dry
Silver	5.2		2.1	mg/kg dry
Thallium	---	U	8.5	mg/kg dry
Vanadium	17		8.5	mg/kg dry
Zinc	5700		8.5	mg/kg dry
Tin	6.6		4.2	mg/kg dry

Mercury CVAA



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS007-1824-001

Sample ID: 1303109-27

Mercury CVAA

Mercury	---	U	0.035	mg/kg dry
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Field ID: P001-SS008-0206-001

Sample ID: 1303109-28

Metals ICP

Aluminum	14000		39	mg/kg dry
Antimony	---	U	7.8	mg/kg dry
Arsenic	5.0		3.1	mg/kg dry
Barium	150		39	mg/kg dry
Beryllium	3.6		1.2	mg/kg dry
Cadmium	5.0		1.2	mg/kg dry
Calcium	15000		190	mg/kg dry
Chromium	65		1.9	mg/kg dry
Cobalt	11		7.8	mg/kg dry
Copper	4400		3.9	mg/kg dry
Iron	53000		19	mg/kg dry
Lead	740		3.1	mg/kg dry
Magnesium	5700		190	mg/kg dry
Manganese	970		1.9	mg/kg dry
Nickel	120		7.8	mg/kg dry
Potassium	1600		190	mg/kg dry
Selenium	---	U	7.8	mg/kg dry
Sodium	910		390	mg/kg dry
Silver	2.7		1.9	mg/kg dry
Thallium	---	U	7.8	mg/kg dry
Vanadium	70		7.8	mg/kg dry



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS008-0206-001

Sample ID: 1303109-28

Metals ICP

Zinc	4400	7.8	mg/kg dry
Tin	200	3.9	mg/kg dry

Mercury CVAA

Mercury	0.40	0.032	mg/kg dry
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Field ID: P001-SS008-2224-001

Sample ID: 1303109-29

Metals ICP

Aluminum	3700	48	mg/kg dry
Antimony	21	9.7	mg/kg dry
Arsenic	67	3.9	mg/kg dry
Barium	170	48	mg/kg dry
Beryllium	1.7	1.5	mg/kg dry
Cadmium	3.3	1.5	mg/kg dry
Calcium	4900	240	mg/kg dry
Chromium	16	2.4	mg/kg dry
Cobalt	15	9.7	mg/kg dry
Copper	340	4.8	mg/kg dry
Iron	79000	24	mg/kg dry
Lead	540	3.9	mg/kg dry
Magnesium	1400	240	mg/kg dry
Manganese	15000	12	mg/kg dry
Nickel	38	9.7	mg/kg dry
Potassium	360	240	mg/kg dry
Selenium	---	U	mg/kg dry
Sodium	---	U	480 mg/kg dry



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS008-2224-001

Sample ID: 1303109-29

Metals ICP

Silver	---	U	2.4	mg/kg dry
Thallium	---	U	9.7	mg/kg dry
Vanadium	19		9.7	mg/kg dry
Zinc	23000		9.7	mg/kg dry
Tin	30		4.8	mg/kg dry

Mercury CVAA

Mercury	0.38	0.033	mg/kg dry
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Field ID: P001-SS009-0206-001

Sample ID: 1303109-30

Metals ICP

Aluminum	13000	43	mg/kg dry
Antimony	130	8.6	mg/kg dry
Arsenic	22	3.5	mg/kg dry
Barium	560	43	mg/kg dry
Beryllium	7.5	1.3	mg/kg dry
Cadmium	82	1.3	mg/kg dry
Calcium	37000	220	mg/kg dry
Chromium	94	2.2	mg/kg dry
Cobalt	14	8.6	mg/kg dry
Copper	18000	4.3	mg/kg dry
Iron	41000	22	mg/kg dry
Lead	11000	3.5	mg/kg dry
Magnesium	4200	220	mg/kg dry
Manganese	1900	2.2	mg/kg dry
Nickel	300	8.6	mg/kg dry



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS009-0206-001

Sample ID: 1303109-30

Metals ICP

Potassium	440		220	mg/kg dry
Selenium	---	U	8.6	mg/kg dry
Sodium	---	U	430	mg/kg dry
Silver	9.8		2.2	mg/kg dry
Thallium	---	U	8.6	mg/kg dry
Vanadium	45		8.6	mg/kg dry
Zinc	60000		43	mg/kg dry
Tin	1200		4.3	mg/kg dry

Mercury CVAA

Mercury	3.4		0.39	mg/kg dry
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Field ID: P001-SS010-1824-001

Sample ID: 1303109-31

Metals ICP

Aluminum	5100		68	mg/kg dry
Antimony	39		14	mg/kg dry
Arsenic	27		5.4	mg/kg dry
Barium	690		68	mg/kg dry
Beryllium	3.9		2.0	mg/kg dry
Cadmium	23		2.0	mg/kg dry
Calcium	35000		340	mg/kg dry
Chromium	77		3.4	mg/kg dry
Cobalt	---	U	14	mg/kg dry
Copper	25000		6.8	mg/kg dry
Iron	49000		34	mg/kg dry
Lead	5400		5.4	mg/kg dry



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS010-1824-001

Sample ID: 1303109-31

Metals ICP

Magnesium	14000		340	mg/kg dry
Manganese	2800		3.4	mg/kg dry
Nickel	580		14	mg/kg dry
Potassium	340		340	mg/kg dry
Selenium	--	U	14	mg/kg dry
Sodium	740		680	mg/kg dry
Silver	8.5		3.4	mg/kg dry
Thallium	--	U	14	mg/kg dry
Vanadium	49		14	mg/kg dry
Zinc	14000		14	mg/kg dry
Tin	1100		6.8	mg/kg dry

Mercury CVAA

Mercury	2.0		0.21	mg/kg dry
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Field ID: P001-SS013-0206-001

Sample ID: 1303109-32

Metals ICP

Aluminum	12000		39	mg/kg dry
Antimony	--	U	7.9	mg/kg dry
Arsenic	--	U	3.2	mg/kg dry
Barium	130		39	mg/kg dry
Beryllium	--	U	1.2	mg/kg dry
Cadmium	--	U	1.2	mg/kg dry
Calcium	13000		200	mg/kg dry
Chromium	37		2.0	mg/kg dry



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS013-0206-001

Sample ID: 1303109-32

Metals ICP

Cobalt	10		7.9	mg/kg dry
Copper	180		3.9	mg/kg dry
Iron	38000		20	mg/kg dry
Lead	61		3.2	mg/kg dry
Magnesium	7200		200	mg/kg dry
Manganese	330		2.0	mg/kg dry
Nickel	25		7.9	mg/kg dry
Potassium	1800		200	mg/kg dry
Selenium	---	U	7.9	mg/kg dry
Sodium	660		390	mg/kg dry
Silver	---	U	2.0	mg/kg dry
Thallium	---	U	7.9	mg/kg dry
Vanadium	74		7.9	mg/kg dry
Zinc	610		7.9	mg/kg dry
Tin	---	U	3.9	mg/kg dry

Mercury CVAA

Mercury	---	U	0.031	mg/kg dry
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Field ID: P001-SS013-0612-001

Sample ID: 1303109-33

Metals ICP

Aluminum	6200		40	mg/kg dry
Antimony	---	U	8.1	mg/kg dry
Arsenic	---	U	3.2	mg/kg dry
Barium	47		40	mg/kg dry



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS013-0612-001

Sample ID: 1303109-33

Metals ICP

Beryllium	---	U	1.2	mg/kg dry
Cadmium	---	U	1.2	mg/kg dry
Calcium	5400		200	mg/kg dry
Chromium	24		2.0	mg/kg dry
Cobalt	8.1		8.1	mg/kg dry
Copper	110		4.0	mg/kg dry
Iron	35000		20	mg/kg dry
Lead	58		3.2	mg/kg dry
Magnesium	4300		200	mg/kg dry
Manganese	180		2.0	mg/kg dry
Nickel	17		8.1	mg/kg dry
Potassium	1700		200	mg/kg dry
Selenium	---	U	8.1	mg/kg dry
Sodium	---	U	400	mg/kg dry
Silver	---	U	2.0	mg/kg dry
Thallium	---	U	8.1	mg/kg dry
Vanadium	69		8.1	mg/kg dry
Zinc	280		8.1	mg/kg dry
Tin	---	U	4.0	mg/kg dry

Mercury CVAA

Mercury	---	U	0.039	mg/kg dry
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Field ID: P001-SS013-1218-001

Sample ID: 1303109-34

Metals ICP

U.S.E.P.A Region 2 Laboratory

Reported: 5/15/2013

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS013-1218-001

Sample ID: 1303109-34

Metals ICP

Aluminum	3900		40	mg/kg dry
Antimony	26		7.9	mg/kg dry
Arsenic	3.8		3.2	mg/kg dry
Barium	50		40	mg/kg dry
Beryllium	---	U	1.2	mg/kg dry
Cadmium	4.5		1.2	mg/kg dry
Calcium	4200		200	mg/kg dry
Chromium	17		2.0	mg/kg dry
Cobalt	---	U	7.9	mg/kg dry
Copper	3300		4.0	mg/kg dry
Iron	13000		20	mg/kg dry
Lead	1100		3.2	mg/kg dry
Magnesium	1700		200	mg/kg dry
Manganese	290		2.0	mg/kg dry
Nickel	40		7.9	mg/kg dry
Potassium	310		200	mg/kg dry
Selenium	---	U	7.9	mg/kg dry
Sodium	---	U	400	mg/kg dry
Silver	---	U	2.0	mg/kg dry
Thallium	---	U	7.9	mg/kg dry
Vanadium	25		7.9	mg/kg dry
Zinc	3700		7.9	mg/kg dry
Tin	98		4.0	mg/kg dry

Mercury CVAA



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS013-1218-001

Sample ID: 1303109-34

Mercury CVAA

Mercury 0.23 0.039 mg/kg dry

Field ID: P001-SS013-1824-001

Sample ID: 1303109-35

Metals ICP

Aluminum	26000	43	mg/kg dry
Antimony	14	8.6	mg/kg dry
Arsenic	15	3.4	mg/kg dry
Barium	510	.43	mg/kg dry
Beryllium	6.9	1.3	mg/kg dry
Cadmium	7.5	1.3	mg/kg dry
Calcium	60000	210	mg/kg dry
Chromium	200	2.1	mg/kg dry
Cobalt	17	8.6	mg/kg dry
Copper	5400	4.3	mg/kg dry
Iron	50000	21	mg/kg dry
Lead	2400	3.4	mg/kg dry
Magnesium	9800	210	mg/kg dry
Manganese	42000	11	mg/kg dry
Nickel	170	8.6	mg/kg dry
Potassium	1500	210	mg/kg dry
Selenium	---	U	43 mg/kg dry
Sodium	650	430	mg/kg dry
Silver	6.0	2.1	mg/kg dry
Thallium	---	U	8.6 mg/kg dry
Vanadium	21	8.6	mg/kg dry



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS013-1824-001

Sample ID: 1303109-35

Metals ICP

Zinc	6700		8.6	mg/kg dry
Tin	180		4.3	mg/kg dry

Mercury CVAA

Mercury	0.047		0.036	mg/kg dry
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Field ID: P001-SS014-0206-001

Sample ID: 1303109-36

Metals ICP

Aluminum	13000		42	mg/kg dry
Antimony	---	U	8.3	mg/kg dry
Arsenic	---	U	3.3	mg/kg dry
Barium	54		42	mg/kg dry
Beryllium	---	U	1.2	mg/kg dry
Cadmium	---	U	1.2	mg/kg dry
Calcium	22000		210	mg/kg dry
Chromium	19		2.1	mg/kg dry
Cobalt	12		8.3	mg/kg dry
Copper	60		4.2	mg/kg dry
Iron	27000		21	mg/kg dry
Lead	15		3.3	mg/kg dry
Magnesium	12000		210	mg/kg dry
Manganese	360		2.1	mg/kg dry
Nickel	28		8.3	mg/kg dry
Potassium	1000		210	mg/kg dry
Selenium	---	U	8.3	mg/kg dry



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Barth Smelting Co.-1303109
Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS014-0206-001

Sample ID: 1303109-36

Metals ICP

Sodium	1300		420	mg/kg dry
Silver	---	U	2.1	mg/kg dry
Thallium	---	U	8.3	mg/kg dry
Vanadium	92		8.3	mg/kg dry
Zinc	120		8.3	mg/kg dry
Tin	---	U	4.2	mg/kg dry

Mercury CVAA

Mercury	---	U	0.038	mg/kg dry
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Field ID: P001-SS014-2124-001

Sample ID: 1303109-37

Metals ICP

Aluminum	21000		43	mg/kg dry
Antimony	14		8.7	mg/kg dry
Arsenic	46		3.5	mg/kg dry
Barium	270		43	mg/kg dry
Beryllium	5.1		1.3	mg/kg dry
Cadmium	3.5		1.3	mg/kg dry
Calcium	34000		220	mg/kg dry
Chromium	290		2.2	mg/kg dry
Cobalt	45		8.7	mg/kg dry
Copper	610		4.3	mg/kg dry
Iron	73000		22	mg/kg dry
Lead	250		3.5	mg/kg dry
Magnesium	5900		220	mg/kg dry
Manganese	30000		11	mg/kg dry



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS014-2124-001

Sample ID: 1303109-37

Metals ICP

Nickel	180		8.7	mg/kg dry
Potassium	1500		220	mg/kg dry
Selenium	--	U	43	mg/kg dry
Sodium	610		430	mg/kg dry
Silver	3.4		2.2	mg/kg dry
Thallium	--	U	8.7	mg/kg dry
Vanadium	20		8.7	mg/kg dry
Zinc	1200		8.7	mg/kg dry
Tin	7.9		4.3	mg/kg dry

Mercury CVAA

Mercury	--	U	0.036	mg/kg dry
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Field ID: P001-SS015-0001-001

Sample ID: 1303109-38

Metals ICP

Aluminum	7900		45	mg/kg dry
Antimony	--	U	9.1	mg/kg dry
Arsenic	7.4		3.6	mg/kg dry
Barium	65		45	mg/kg dry
Beryllium	--	U	1.4	mg/kg dry
Cadmium	--	U	1.4	mg/kg dry
Calcium	7300		230	mg/kg dry
Chromium	23		2.3	mg/kg dry
Cobalt	--	U	9.1	mg/kg dry
Copper	88		4.5	mg/kg dry



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS015-0001-001

Sample ID: 1303109-38

Metals ICP

Iron	20000		23	mg/kg dry
Lead	66		3.6	mg/kg dry
Magnesium	3200		230	mg/kg dry
Manganese	500		2.3	mg/kg dry
Nickel	15		9.1	mg/kg dry
Potassium	690		230	mg/kg dry
Selenium	---	U	9.1	mg/kg dry
Sodium	---	U	450	mg/kg dry
Silver	---	U	2.3	mg/kg dry
Thallium	---	U	9.1	mg/kg dry
Vanadium	36		9.1	mg/kg dry
Zinc	230		9.1	mg/kg dry
Tin	---	U	4.5	mg/kg dry

Mercury CVAA

Mercury	0.094	0.033	mg/kg dry
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Field ID: P001-SS015-0106-001

Sample ID: 1303109-39

Metals ICP

Aluminum	7800		47	mg/kg dry
Antimony	---	U	9.4	mg/kg dry
Arsenic	5.9		3.8	mg/kg dry
Barium	62		47	mg/kg dry
Beryllium	---	U	1.4	mg/kg dry
Cadmium	---	U	1.4	mg/kg dry



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS015-0106-001

Sample ID: 1303109-39

Metals ICP

Calcium	13000		240	mg/kg dry
Chromium	23		2.4	mg/kg dry
Cobalt	---	U	9.4	mg/kg dry
Copper	82		4.7	mg/kg dry
Iron	16000		24	mg/kg dry
Lead	69		3.8	mg/kg dry
Magnesium	3800		240	mg/kg dry
Manganese	510		2.4	mg/kg dry
Nickel	14		9.4	mg/kg dry
Potassium	610		240	mg/kg dry
Selenium	---	U	9.4	mg/kg dry
Sodium	---	U	470	mg/kg dry
Silver	---	U	2.4	mg/kg dry
Thallium	---	U	9.4	mg/kg dry
Vanadium	28		9.4	mg/kg dry
Zinc	200		9.4	mg/kg dry
Tin	---	U	4.7	mg/kg dry

Mercury CVAA

Mercury	0.10		0.045	mg/kg dry
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Field ID: P001-SS015-0612-001

Sample ID: 1303109-40

Metals ICP

Aluminum	8100		46	mg/kg dry
Antimony	---	U	9.1	mg/kg dry



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS015-0612-001

Sample ID: 1303109-40

Metals ICP

Arsenic	9.4		3.6	mg/kg dry
Barium	70		46	mg/kg dry
Beryllium	---	U	1.4	mg/kg dry
Cadmium	---	U	1.4	mg/kg dry
Calcium	11000		230	mg/kg dry
Chromium	24		2.3	mg/kg dry
Cobalt	---	U	9.1	mg/kg dry
Copper	74		4.6	mg/kg dry
Iron	17000		23	mg/kg dry
Lead	67		3.6	mg/kg dry
Magnesium	3000		230	mg/kg dry
Manganese	540		2.3	mg/kg dry
Nickel	14		9.1	mg/kg dry
Potassium	540		230	mg/kg dry
Selenium	---	U	9.1	mg/kg dry
Sodium	---	U	460	mg/kg dry
Silver	---	U	2.3	mg/kg dry
Thallium	---	U	9.1	mg/kg dry
Vanadium	30		9.1	mg/kg dry
Zinc	190		9.1	mg/kg dry
Tin	---	U	4.6	mg/kg dry

Mercury CVAA

Mercury	0.12	0.047	mg/kg dry
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS015-1218-001

Sample ID: 1303109-41

Metals ICP

Aluminum	8000		46	mg/kg dry
Antimony	---	U	9.2	mg/kg dry
Arsenic	11		3.7	mg/kg dry
Barium	69		46	mg/kg dry
Beryllium	---	U	1.4	mg/kg dry
Cadmium	---	U	1.4	mg/kg dry
Calcium	11000		230	mg/kg dry
Chromium	33		2.3	mg/kg dry
Cobalt	---	U	9.2	mg/kg dry
Copper	77		4.6	mg/kg dry
Iron	17000		23	mg/kg dry
Lead	65		3.7	mg/kg dry
Magnesium	3400		230	mg/kg dry
Manganese	550		2.3	mg/kg dry
Nickel	15		9.2	mg/kg dry
Potassium	630		230	mg/kg dry
Selenium	---	U	9.2	mg/kg dry
Sodium	---	U	460	mg/kg dry
Silver	---	U	2.3	mg/kg dry
Thallium	---	U	9.2	mg/kg dry
Vanadium	31		9.2	mg/kg dry
Zinc	180		9.2	mg/kg dry
Tin	---	U	4.6	mg/kg dry

Mercury CVAA



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS015-1218-001

Sample ID: 1303109-41

Mercury CVAA

Mercury	0.12	0.047	mg/kg dry
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Field ID: P001-SS015-1824-001

Sample ID: 1303109-42

Metals ICP

Aluminum	7900	44	mg/kg dry	
Antimony	---	U	8.9	mg/kg dry
Arsenic	25		3.6	mg/kg dry
Barium	73		44	mg/kg dry
Beryllium	---	U	1.3	mg/kg dry
Cadmium	---	U	1.3	mg/kg dry
Calcium	11000		220	mg/kg dry
Chromium	39		2.2	mg/kg dry
Cobalt	---	U	8.9	mg/kg dry
Copper	83		4.4	mg/kg dry
Iron	17000		22	mg/kg dry
Lead	76		3.6	mg/kg dry
Magnesium	3500		220	mg/kg dry
Manganese	590		2.2	mg/kg dry
Nickel	36		8.9	mg/kg dry
Potassium	500		220	mg/kg dry
Selenium	---	U	8.9	mg/kg dry
Sodium	---	U	440	mg/kg dry
Silver	---	U	2.2	mg/kg dry
Thallium	---	U	8.9	mg/kg dry



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P001-SS015-1824-001

Sample ID: 1303109-42

Metals ICP

Vanadium	31		8.9	mg/kg dry
Zinc	210		8.9	mg/kg dry
Tin	---	U	4.4	mg/kg dry

Mercury CVAA

Mercury	0.11		0.045	mg/kg dry
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Field ID: RB-032613

Sample ID: 1303109-43

Metals ICP

Aluminum	---	U	100	ug/L
Antimony	---	U	20	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Cadmium	---	U	3.0	ug/L
Calcium	---	U	500	ug/L
Chromium	---	U	5.0	ug/L
Cobalt	---	U	20	ug/L
Copper	---	U	10	ug/L
Iron	---	U	50	ug/L
Lead	---	U	8.0	ug/L
Magnesium	---	U	500	ug/L
Manganese	---	U	5.0	ug/L
Nickel	---	U	20	ug/L



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project: Barth Smelting Co.-1303109

Project Number: 1303109

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: RB-032613

Sample ID: 1303109-43

Metals ICP

Potassium	---	U	500	ug/L
Selenium	---	U	20	ug/L
Silver	---	U	5.0	ug/L
Sodium	---	U	1000	ug/L
Thallium	---	UJ	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L
Tin	---	U	10	ug/L

Mercury CVAA

Mercury	---	U	0.20	ug/L
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USEPA

Date Shipped: 3/27/2013

Carrier Name: Hand-Deliver

Airbill No: N/A

CHAIN OF CUSTODY RECORD

No: 2-032713-091826-0001

Cooler #:

Lab: DESA

Lab Phone: 732-321-6707

R02_Barth Smelting Corp./NJ

Contact Name: Scott Snyder

Contact Phone: 973-219-7394

Lab #	Sample #	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	MS/MSD
	P001-SS001-0206-001	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	09:10	1	4-oz. glass jar	4 C	N
	P001-SS001-0612-001	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	09:12	1	4-oz. glass jar	4 C	N
	P001-SS001-1218-001	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	09:15	1	4-oz. glass jar	4 C	N
	P001-SS001-1824-001	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	09:20	2	4-oz. glass jar	4 C	Y
	P001-SS001-1824-002	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	09:20	1	4-oz. glass jar	4 C	N
	P001-SS002-0206-001	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	09:45	1	4-oz. glass jar	4 C	N
	P001-SS002-0612-001	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	09:47	1	4-oz. glass jar	4 C	N
	P001-SS002-1218-001	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	09:50	1	4-oz. glass jar	4 C	N
	P001-SS002-1824-001	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	09:52	1	4-oz. glass jar	4 C	N
	P001-SS003-0206-001	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	10:05	1	4-oz. glass jar	4 C	N
	P001-SS003-0612-001	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	10:07	1	4-oz. glass jar	4 C	N

Special Instructions: The following samples are designated for 250-micron sieving: P001-SS001-0206-001, P001-SS002-0206-001, P001-SS003-0206-001, P001-SS004-0206-001, P001-SS005-0206-001, P001-SS006-0206-001, P001-SS008-0206-001, P001-SS009-0206-001, P001-SS013-0206-001, P001-SS014-0206-001, P001-SS015-0001-001.

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Lab Analyses		3/27/13		3/27/13	11:50						

Temp = 4.8°C on ice at 3/27/13

USEPA

DateShipped: 3/27/2013

CarrierName: Hand-Deliver

Airbill No: N/A

CHAIN OF CUSTODY RECORD

R02_Barth Smelting Corp./NJ

Contact Name: Scott Snyder

Contact Phone: 973-219-7394

No: 2-032713-091826-0001

Cooler #:

Lab: DESA

Lab Phone: 732-321-6707

Lab #	Sample #	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	MS/MSD
	P001-SS003-1218-001	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	10:10	1	4-oz. glass jar	4 C	N
	P001-SS003-1824-001	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	10:12	1	4-oz. glass jar	4 C	N
	P001-SS004-0206-001	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	10:25	1	4-oz. glass jar	4 C	N
	P001-SS004-0612-001	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	10:28	1	4-oz. glass jar	4 C	N
	P001-SS004-1218-001	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	10:35	1	4-oz. glass jar	4 C	N
	P001-SS004-1824-001	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	10:40	1	4-oz. glass jar	4 C	N
	P001-SS005-0206-001	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	11:00	1	4-oz. glass jar	4 C	N
	P001-SS005-0609-001	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	11:05	1	4-oz. glass jar	4 C	N
	P001-SS005-1318-001	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	11:08	1	4-oz. glass jar	4 C	N
	P001-SS005-1824-001	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	11:12	1	4-oz. glass jar	4 C	N
	P001-SS006-0206-001	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	11:30	1	4-oz. glass jar	4 C	N

SPECIAL INSTRUCTIONS: The following samples are designated for 250-micron sieving: P001-SS001-0206-001, P001-SS002-0206-001, P001-SS003-0206-001, P001-SS004-0206-001, P001-SS005-0206-001, P001-SS006-0206-001, P001-SS008-0206-001, P001-SS009-0206-001, P001-SS013-0206-001, P001-SS014-0206-001, P001-SS015-0001-001.

USEPA

DateShipped: 3/27/2013

CarrierName: Hand-Deliver

Airbill No: N/A

CHAIN OF CUSTODY RECORD

R02: Barth Smelting Corp./NJ

Contact Name: Scott Snyder

Contact Phone: 973-219-7394

No: 2-032713-091826-0001

Cooper #:

Lab: DESA

Lab Phone: 732-321-6707

Lab #	Sample #	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	MS/MSD
	P001-SS006-0612-001	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	11:35	1	4-oz. glass jar	4 C	N
	P001-SS006-1218-001	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	11:40	2	4-oz. glass jar	4 C	Y
	P001-SS006-1218-002	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	11:40	1	4-oz. glass jar	4 C	N
	P001-SS007-1218-001	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	12:10	1	4-oz. glass jar	4 C	N
	P001-SS007-1824-001	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	12:15	1	4-oz. glass jar	4 C	N
	P001-SS008-0206-001	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	13:00	1	4-oz. glass jar	4 C	N
	P001-SS008-2224-001	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	13:05	1	4-oz. glass jar	4 C	N
	P001-SS009-0206-001	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	12:40	1	4-oz. glass jar	4 C	N
	P001-SS010-1824-001	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	13:20	1	4-oz. glass jar	4 C	N
	P001-SS013-0206-001	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	13:55	1	4-oz. glass jar	4 C	N
	P001-SS013-0612-001	TAL Metals (incl. Hg and Sn)	Soil	3/26/2013	14:00	1	4-oz. glass jar	4 C	N

SPECIAL INSTRUCTIONS: The following samples are designated for 250-micron sieving: P001-SS001-0206-001, P001-SS002-0206-001, P001-SS003-0206-001, P001-SS004-0206-001, P001-SS005-0206-001, P001-SS006-0206-001, P001-SS008-0206-001, P001-SS009-0206-001, P001-SS013-0206-001, P001-SS014-0206-001, P001-SS015-0001-001.

USEPA

DateShipped: 3/27/2013

CarrierName: Hand-Deliver

Airbill No: N/A

CHAIN OF CUSTODY RECORD

R02_Barth Smelting Corp./NJ

Contact Name: Scott Snyder

Contact Phone: 973-219-7394

No: 2-032713-091826-0001

Cooler #:

Lab: DESA

Lab Phone: 732-321-6707

SPECIAL INSTRUCTIONS: The following samples are designated for 250-micron sieving: P001-SS001-0206-001, P001-SS002-0206-001, P001-SS003-0206-001, P001-SS004-0206-001, P001-SS005-0206-001, P001-SS006-0206-001, P001-SS008-0206-001, P001-SS009-0206-001, P001-SS013-0206-001, P001-SS014-0206-001, P001-SS015-0001-001.